

The.



# CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3128  
VOL. CXXXII

JANUARY 20, 1940

Annual Subscription (with  
Diary) 20/- Single Copies 9d.

**IN PEACE  
OR IN  
WAR . . .**

*we are always at  
your service!*

EST. 1741

1854

THE  
CRIMEAN  
WAR

1899

THE  
BOER  
WAR

1914

THE  
GREAT WAR

1939

**BURGOYNE BURBIDGES**

Established 1741. & COMPANY LIMITED, LONDON. E.6

# For Active Service

## Parcels



### EUTHYMOL Tooth Paste

A man's dentifrice. No mawkish taste, but a "tang" that freshens the mouth and leaves it clean. This profitable line has been on the P.A.T.A. for over 30 years, and in every way is worthy of pharmaceutical support. M.R.P. 1/3.

### PARKE-DAVIS SHAVING CREAM

Provides a fine antiseptic lather with cold water. No irritated skin. Ensures a shave that satisfies the fussiest sergeant-major. Because it contains the scheduled antiseptic, mercuric iodide, this shaving cream is the monopoly of the pharmaceutical profession. There can be no competition from barbers, stores, ironmongers, etc. M.R.P. 1/6.

### 'NEKO' (Germicidal Soap)

Excellent for disinfection and securing body comfort. Thirty times as potent an antiseptic as phenol. Useful for foot troubles, cuts, scratches, etc. Sells readily also to physicians, nurses, midwives, etc., for its germicidal action. Show it on your counter. M.R.P. 1/3.

*Send for Terms to:*

**PARKE, DAVIS & CO.,  
50 BEAK ST., LONDON, W.1**

a 40% increase in advertising  
means FURTHER INCREASE  
in BRAND'S SALES !

Just as it always did, a bold advertising policy means greater sales. Brand's have proved it since the War commenced, and are now about to prove it yet again. Increased newspaper appropriation, extensive Underground posters, and a big new Window Display Scheme, are all parts of a campaign that will build big profits—and profits for you, if you stock now.

#### PRESS ADVERTISING

**NATIONAL PRESS**—Daily Mail, Daily Express, The Times, etc., etc.  
**PROVINCIAL PRESS**—Yorkshire Post, Manchester Guardian, Scotsman, etc.  
**MAGAZINES**—Punch, Sphere, with the addition of the famous weekly PICTURE POST.  
**MEDICAL PRESS AND NURSING PRESS.**

#### UNDERGROUND

Hundreds of London Underground Coaches equipped with full lighting will carry Brand's Essence Posters.

#### SALES PROMOTION

Another big new Window Display Scheme is about to be introduced, and with it, attractive showcards in full colour for your windows and counters.

## BRAND'S ESSENCE

BRAND & COMPANY LTD.  
Mayfair Works, Vauxhall, London, S.W.8

stock  
now !

# BROOKLAX

launches

# GREAT NATIONAL ADVERTISING CAMPAIGN!

To reach nearly  
**20,000,000** people  
 every week!



Your splendid co-operation now enables us to support you with the greatest advertising campaign in the history of the Company.

Discount and retail prices are maintained at pre-war footing.

**X KEEP YOUR MONEY AT HOME**  
**BROOKLAX**  
 IS  
**MADE IN ENGLAND**

Patriotism today demands, more than ever, that home produced goods be sold in preference to imported, for which money has to be sent overseas in payment.

WESTMINSTER LABORATORIES LTD., 4-12, PALMER STREET, LONDON, S.W.1

**Brooklax advertisements will appear every week in:**

*DAILY MAIL*  
*DAILY HERALD*  
*DAILY EXPRESS*  
*NEWS CHRONICLE*  
*DAILY SKETCH*  
*DAILY MIRROR*  
*EVENING NEWS*  
*STAR*  
*GLASGOW EVENING TIMES*  
*GLASGOW RECORD*  
*GLASGOW BULLETIN*  
*IRISH PRESS*  
*IRISH DAILY INDEPENDENT*  
*DUBLIN EVENING HERALD*  
*CORK EXAMINER*  
*BELFAST EVENING TELEGRAPH*  
*SUNDAY PICTORIAL*  
*JOHN BULL*  
*RADIO TIMES*  
*PICTURE POST*  
*etc., etc.*



**BIG  
National Advertising  
Campaign Commences January  
-order stocks Now for  
BIG SALES!**

IN the daily papers and magazines we are telling *all* women who use cosmetics how Crookes' Lacto-Calamine refreshes and purifies the skin and leaves a delicate natural-coloured bloom upon the surface that actually hides all small blemishes until the healing properties of Lacto-Calamine have swiftly banished them.

We are telling them, too, about the amazing skin value of Lacto-Calamine's newest ingredient—Vitamin A! Facts prove that *once* women use Lacto-Calamine they *always* use it. Write to-day for attractive show material so as to be sure of your share of this big new demand we are creating. Lacto-Calamine is a C.F. line—fully supported and subject to generous bonus terms for special displays.

*Crookes'*  
**LACTO-CALAMINE**  
LOTION · TALCUM POWDER · CREAM

THE CROOKES LABORATORIES (British Colloids Ltd.) PARK ROYAL, LONDON, N.W.10  
Telephone: Willesden 6313 (5 lines) Telegrams: Collosols, Harles, London.



CROOKES' BONUS TERMS

ORDER	DISCOUNT	BONUS
3 doz.	25% & 10%	1 per doz.
6 doz.	25% & 10%	2 per doz.

# Introducing Cussons

## NEW BEAUTY SOAPS



### Ess Bouquet, Apple Blossom, Imperial Leather

three newcomers to Cussons' range of fine quality Soaps.

**Musk Plant** (not illustrated here) completes this latest series of Soaps of Quality.

They are distinctive—perfume, shape and pack harmonise to perfection.

• • •

*Sample sixpenny tablet will be sent on receipt of a postcard.*

• • •

**You will be just as enthusiastic as we are about these soaps.**

# CUSSONS SONS & CO., LTD.

KERSAL VALE

:

MANCHESTER

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# TORCH BATTERIES — EX STOCK

THE FOLLOWING TYPES OF HIGH-CLASS AMERICAN TORCH BATTERIES CAN BE SUPPLIED EX STOCK

Winchester, Usalite or Rayovac dispatched at our option according to stocks available

Winchester Number .....	1511	2511	Terms : 25% Trade Discount and 5% Cash with Order
English Equivalent .....	U2	1829	Carriage : Free Carton Lots upwards Smaller quantities forward
Retail Price .....	6d.	1s.	<i>In the event of our becoming oversold, cheques will be returned immediately.</i>
Carton contains .....	2 gross	1 gross	
Case .....	6 gross	3 gross	

American Penlites and equivalents of 1839 will be available in February. Enquiries invited

Wholesale only from

**THE NEEDHAM ENGINEERING COMPANY LTD.**  
**LEOPOLD STREET, SHEFFIELD**

Phone: 21011 (7 lines)

Grams: "Pumps"

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# Free Tooth Powder for the forces IS ALREADY INCREASING SALES

**20,000,000**

people will read about it each month in . . . .

DAILY MAIL	NEWS CHRONICLE
DAILY EXPRESS	DAILY MIRROR
DAILY HERALD	NEWS OF THE WORLD
PICTURE POST	WOMAN
ILLUSTRATED	WOMAN'S WEEKLY

HOUSEWIFE  
JOHN BULL



Our free Tooth Powder Scheme, launched little more than a month ago, has met with instantaneous success! You will have noticed the increased interest the public is taking in Calvert's Tooth Powder. Well informed by extensive National Advertising \* they appreciate the generous offer and are solidly switching over to Calverts.

Continue to display the window bill and get YOUR share of this extra business.

The scheme is successful because everyone gets a "fair deal"—

The Fighting Man receives a tin FREE. The Wife, Mother or Sweetheart who is pleased with her share of the bargain, and

You, Mr. Chemist, because each tin sent out means a sale for YOU.

**CALVERT'S**  
CARBOLIC  
TOOTH POWDER



# *a winning combination*

# VENO★ENO★THERMOGENE



**The new and simplified buying arrangements  
mean INCREASED PROFITS for YOU!**

There is a clear advantage to buyers, both in added convenience and in actual profit, under the new buying arrangements for Veno, Eno and Thermogene Products. **Kindly write at once if you have not received full details of these combined terms.** The amazing Goodwill represented by these three famous names is something to make the most of—all the year round. So keep up your stocks! Come what may your customers will continue to ask for the brands they can trust. Let us know your requirements in good time, so that we may support you to the very best of our ability.

# VENO DRUG CO. LTD.

CHESTER ROAD • MANCHESTER 16

# NOTE PRESENT PRICES

★ CANNOT BE  
SOLD BY  
SWEETSHOPS,  
GROCERS, Etc.



## ALL FOOURS CUBES

The Premier Medicated boiled sweet for  
COUGHS, COLDS, SORE THROATS, etc.

In BULK with colourful envelopes for  
packing all—

7 lb. at **1/7** 14 lb. at **1/6**

28 lb. at **1/5** 56 lb. at **1/4**

112 lb. **1/3**

In LARGE TINS (approx. 2 ozs.)  
Packed in show-outer  
of 1 dozen per doz. **4/-**  
Gross lots at **3/9** doz.

In SMALL TINS (approx. 1 oz.)  
Show-outer of 1 doz. **2/6**  
3-12 doz. at **2/4** 5 gross at **2/2** doz.

**ARTHUR H. COX & CO. LTD. BRIGHTON**

# Big Cash Prizes for you!

## IN THE GREAT 1940

## DRENE DISPLAY CONTEST

For the best  
DRENE SHAMPOO  
DISPLAYS



JUDGES: The panel of Display Experts will include The Advertisement Manager and the Competition Editor of the Daily Mail.

Hurry! Enter the grand 1940 Drene Display Contest now! For the best Drene display built during January and February the makers of Drene Shampoo offer generous cash prizes. Everyone can enter. Everyone has an equal chance. Prizes will be won on selling appeal. Read the simple rules and go right ahead with your display!

### ALL YOU HAVE TO DO

<p>1 Stage a display of both types of Drene either in your window or inside your shop. Have it photographed (or photograph it yourself—it makes no difference).</p> <p>2 Write your name and address in block letters on the back of the photograph.</p> <p>3 Send the photograph to Thomas Hedley &amp; Co. Ltd., Brettenham House, Wellington Street, London, W.C.2.</p>	<p>4 More than one entry can be submitted by each competitor providing each photograph is of a different display.</p> <p>5 Entries must be received not later than February 29th, 1940.</p> <p>6 Judges' decision must be accepted as final and legally binding. No correspondence will be entered into, nor will responsibility be accepted for entries damaged or lost in the post.</p>
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### FREE DISPLAY MATERIAL

TO THOMAS HEDLEY & CO. LTD., BRETTENHAM HOUSE,  
WELLINGTON STREET, LONDON, W.C.2.

Please send me Drene display material so that I can enter for the 1940 Drene Display Contest.

Name.....

Address.....

.....

# Glymeli Jelly

## SPECIAL DISPLAY OFFER

**Closes Feb. 7th**

*The offer is as follows:—*

On Orders for 1 gross tubes 6d. or 1/- sizes assorted at 4/6 and 9/- per doz. respectively a display discount of 7½% is given

**Send your Order in Now**



*Sole Wholesale Agents:*

**Sangers**  
LIMITED

Telephone  
Order  
Department

258 Euston Road, London, N.W.1

5010

Proprietors: OSBORNE, BAUER & CHEESEMAN, LTD.  
42 Hampstead Road, London, N.W.1

# VINOLIA MARCHES ON

**WINTER LIPS RUIN YOUR APPEARANCE**

Those chaps and cracks which winter winds bring to your lips, not only spoil your whole appearance, they way to soothe and heal them is to use Vinolia Lypsyl. Vinolia Lypsyl will make your lips soft and supple and attractive again in no time. It is supplied in white red and orange. A little will take away chaps.

**VINOLIA**

**FOR BABY**

Vinolia Baby Products are among the first recommendations that mothers make to their daughters when there is a new arrival. This has been so for several generations because Vinolia Baby Products are safe, hygienic and economical.

**VINOLIA BABY CREAM**

Invadable antiseptic which can be used with absolute safety on baby's delicate skin. Achter de voorziet voor de Vinolia Baby Cream. Trial Pack (price 6d) containing various samples of Vinolia Baby Soap, Cream and Powder, with "Hygiene of Baby" a booklet by Nurse Vincent, Nursery Expert of Womans' Hospital, direct to Vinolia, Bebington, Cheshire.

**THE 1940**

**VINOLIA PROPAGANDA WILL REACH**

**EVERY HOME IN THE BRITISH ISLES**

**Beauty has a secret**

How is it that so able to preserve their femininity and arduous have to perform that they have discovered the secret of beauty and charm, without which no woman can be really attractive. They achieved an air of freshness so intimate that it seems to be part of their personality. Vinolia Soap gives a woman a deep and lasting perfume which clings to a woman always. Vinolia imparts a clean agreeable fragrance which does not cloy.

**VINOLIA**

**Difficult CHINS**

Apart from the fact that it might pollute an otherwise clean and pleasant practice, a beard above an embarrasment, a beard is for example, what a man's face is to his chin. For example, what a man's face is to his chin.

**VINOLIA**

**The soap that freshens you**

**A LARGE TABLET**

**With Talc**

**Caution of tablets in**

In the last few years Vinolia advertising has put Vinolia Products among your surest selling lines. This year two further striking campaigns are being launched. One, for Vinolia Lypsyl, will appeal to women who suffer from "Winter Lips." The other will remind mothers of the traditional excellence of Vinolia Baby Products. Retailers who "join up" by giving good Vinolia displays will secure their full share of the increased sales. Ask for the latest Vinolia display material.

**VINOLIA Co., Ltd., BEBINGTON, CHES.**

VT 185/29

# New Turnover... additional Profits!

*Angiers*  
**SUPAVITE**  
REGD. BRAND  
**CAPSULES**  
**VITAMINS IN WAR-TIME**

One after another the Ministers of Food, of Health, of Agriculture—whose care is the Nation's Well-being—have stressed the importance of Vitamins in War-time diet. The Public are now more vitamin-conscious than ever before.

'SUPAVITE' is a combination of Vitamins A, B<sub>1</sub>, B<sub>2</sub> (G), C, D and E, with easily assimilable iron, calcium and phosphorus. The Vitamins

are present in a high state of purity and potency and in such proportions as to provide a scientifically-balanced daily ration in each pair of capsules.

'SUPAVITE' is a highly scientific ethical product. Recommended by the Medical Profession. Every doctor in your area is being canvassed and you are sure to be asked for 'Supavite' in the immediate future.



The 'Supavite' pack is attractive and dignified and is shown in this striking, multi-coloured showcard for window or counter display.

## *A Unique Offer*

To meet the first calls for 'Supavite,' The Angier Chemical Company will supply TWO boxes of 'Supavite' (retail 5s. each) for the price of ONE (3s. 6d.), thus yielding a profit of 6s. 6d. on your first two sales. THIS OFFER WILL NOT BE REPEATED.

### STANDARD TRADE TERMS

Price to the Public	5s. per box
Trade Price	43s. 6d. per dozen boxes

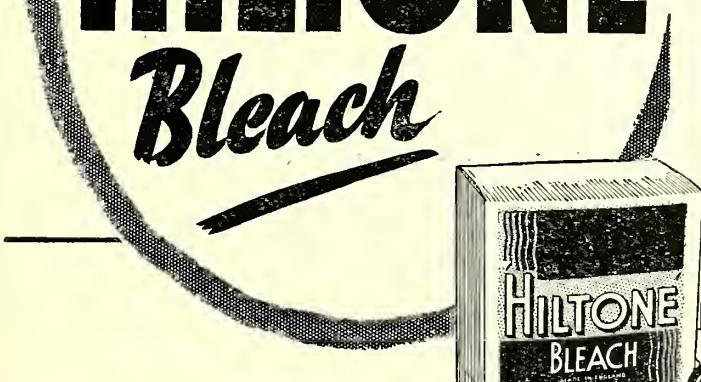
Carriage paid quantity, on initial order, is 6 boxes invoiced at 43s. 6d. per dozen.

NETT 30 DAYS

**FASSETT & JOHNSON LTD.,**  
 86 CLERKENWELL ROAD, E.C.1



**400%**  
*more National  
 Advertising for*  
**HILTONE**  
*Bleach*



**2 FREE with 1 doz. ORDER  
 1 FREE with  $\frac{1}{2}$  doz. ORDER**

The Retail Price of Hiltone Bleach is 3/6 each, the trade price 28/- per dozen with 14 to the dozen and 7 to the  $\frac{1}{2}$  dozen. These terms show you the remarkable profit (not including 5% discount allowed for cash) of 42.8% on turnover.

**More Blondes than  
 ever in 1940 . . .  
 Now they need not  
 fear 'bleached look'**

THE ladies always wanted to be blonde! And when the Hiltone advertisements told them of a new, non-draastic bleach . . . a bleach that produced only soft, natural shades . . . Hiltone sales began to soar. Sales of Hiltone more than doubled themselves in the last few months alone! Every increase in advertising brought a far bigger increase in Sales. That is why Hiltone's National Advertising is up by 400%! That is why we predict a growing demand for Hiltone in your shop.

Link with the  
**1940 CAMPAIGN:**

**DAILY MAIL • DAILY EXPRESS  
 DAILY MIRROR • DAILY SKETCH  
 SUNDAY PICTORIAL and  
 the Women's Magazines,  
 Film — and Popular Weeklies**

**TELL YOUR 'PEROXIDE' CUSTOMERS**

Tell them Hiltone Bleach has a gentle, controlled action. They can raise their hair's colour a few shades, or they can become radiantly blonde, depending on how long Hiltone is left on the head. There is no fear of "bleached look" if Hiltone is applied according to instructions. And be well rewarded in extra turnover, extra profit.

# TWO IMPORTANT ANNOUNCEMENTS

By

## SCOTT & BOWNE LTD.

---

### 1. WILLIAMS SHAVING STICKS

Ample supplies of WILLIAMS MARBELITE SHAVING STICKS and 10d. RELOADS are now available from wholesalers or direct from the sole distributors, Messrs. Scott & Bowne, Ltd.

### 2. VOCALZONE PASTILLES

Statements to the effect that VOCALZONE PASTILLES are no longer available

#### ARE UNTRUE

The original, genuine Vocalzone Pastilles and Vocalzone Solution, in both large and small sizes, are obtainable on demand from your usual wholesaler or direct from the sole distributors, Messrs. Scott & Bowne, Ltd.

★ **Show Material FOR YOU—**

Attractive sales-promoting display material for Williams Shaving Preparations, Vocalzone Pastilles and Scotts Brand Emulsion, will be gladly sent, carriage paid, on request.

*Opium*

**AND OPIUM  
PREPARATIONS**

EXTRACTS  
TINCTURES  
LIQUORS  
LINIMENTS  
LOTIONS  
COMPOUND POWDERS  
COMPOUND PILLS  
SYRUPS  
WINES  
OINTMENTS  
AQUEOUS TINCTURES  
SUPPOSITORIES  
ETC., ETC.



also—

**POWDERED OPIUM B.P.**

*Prepared under the strict supervision of experts to meet all the requirements of the British Pharmacopœia.*

**ALL PRICES ON REQUEST**

**POTTER & CLARKE LTD.**

60-64 ARTILLERY LANE, E.I

*Phone: B1Shopsgate 4761 (6 lines)*

77 DANTZIC STREET, MANCHESTER, 4

*Phone: BLAckfriars 8734*



MEDICINAL PRODUCTS  
OF  
ANIMAL ORIGIN

—::—

*Chemist Counter Lines*

ARMOUR'S FLAVOURED JUNKET

GLANOID CALF'S FOOT JELLY

A FULL RANGE OF GLANDULAR  
PRODUCTS PREPARED FROM FRESH  
WARM GLANDS SUPPLIED IN  
AMPOULES, TABLETS, LIQUIDS  
AND CAPSULES

available in Package Form  
or Bulk Containers

Also PEPSIN all strengths

PEPTONE

both Bacteriological and  
Commercial

ADRENALIN B.P. 1932 (Pure)

PANCREATIN U.S.P.

Inspissated

OX GALL Powdered  
Purified

BILE SALTS POWDER

*Send your enquiries to :*

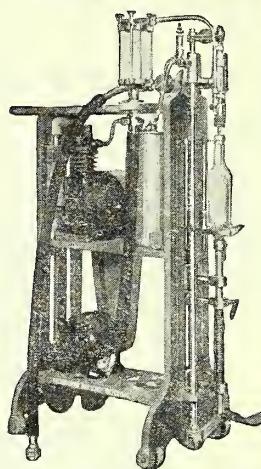
THE  
**Armour Laboratories**

ARMOUR AND COMPANY LTD.  
ARMOUR HOUSE • ST. MARTIN'S-LE-GRAND • LONDON • E.C.1

Phone National 2424

'Grams Armosata-cent, London

ROBERTS' PATENT  
"LEO" VACUUM FILLER



for Glass, Stone,  
and Tin Bottles.  
Fills all sizes from  
drachm to quart—  
long, short or  
sprinkler neck.

Clean and Rapid  
No Over Filling  
Broken Bottles  
Rejected  
Easy to Clean  
Self Rinsing

WRITE FOR  
PARTICULARS

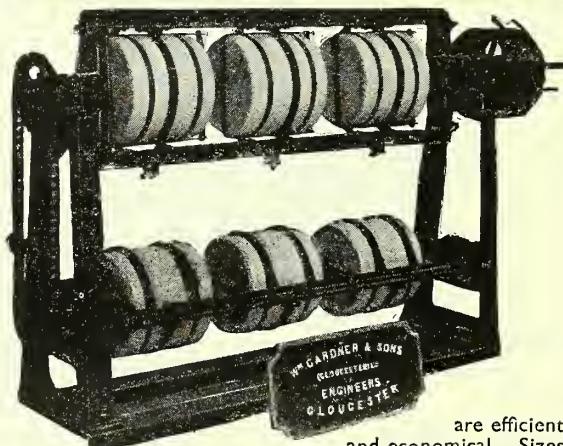
**Roberts' Patent Filling Machine**

Company Limited  
BOLTON, LANCASHIRE

Makers of every description of Bottle Filling and Shallow  
Jar and Tin Filling Machine for the Chemists' use

*ALL RIGHTS RESERVED*

**SMALL MILLS FOR THE  
CHEMIST & DRUGGIST**



are efficient  
and economical. Sizes  
from one pot upwards. They're made by—

**Wm. GARDNER  
& SONS (GLOUCESTER) LTD.  
BRISTOL ROAD, GLOUCESTER**

Telephone : 2288 (3 lines). Telegrams : "Gardner, Gloucester."

London: 19 Gray's Inn Chambers, 20 High Holborn, W.C.1

Telephone : Chancery 7347.

**Win Your  
Customers'  
Esteem**



Reduced facsimiles

Esteem is established only by supplying the *best goods always*. Burroughs Wellcome & Co. products are always reliable, always of supreme quality.

TRADE MARK **'TABLOID'** BRAND  
**CALCIUM Products**

Ideal wherever Calcium is needed to supplement the dietary supply

TRADE MARK **'TABLOID'** BRAND  
**CALCIUM GLUCONATE and IRON**  
(Effervescent)

Tubes of 20 products

R Calcii Gluconatis, gr. 20 (1.296 gm.)  
Ferri et Ammonii Citratis, gr. 3 (0.194 gm.)  
Salis Effervescentis, q.s.

Tubes of 25 products

TRADE MARK **'TABLOID'** BRAND  
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## News of the Week

### Business Changes

WARD, BLENKINSOP & Co., Ltd., chemical manufacturers, have changed their registered address from 125 High Holborn, London, W.C.1, to "Brooklands," Halewood, nr. Liverpool. Telephone: Hunts Cross 1381.

**EXPORT LICENCES FOR FOODSTUFFS.**—The section of the Export Licensing Department dealing with applications for licences in respect of foodstuffs has removed from 35 Old Queen Street, London, S.W.1, to Inveresk House, 346 Strand, W.C.2.

### Additional Import Duties

The Treasury has made an Order under Section 19 of the Import Duties Act, 1932, to be cited as the Additional Import Duties (No. 1) Order (S. R. & O., 1940, No. 16). From January 10, the date on which the Order came into operation, the additional import duty which before that date was chargeable under the Import Duties (General) Order, 1935, on potassium ferrocyanide ceased to be chargeable. Copies of the Order may be obtained from H.M. Stationery Office, price 1d.

### Dunlop Scholarships

As a practical contribution to Lord Derby's plan for employing young men between school and military age, the Dunlop Rubber Co., Ltd., announce the offer of scholarships providing free commercial training under expert supervision with a maintenance grant at the rate of £52 a year. The preliminary qualifications are: age from 17½ to 19 years at the commencement of the course, an educational standard equivalent to that of matriculation, sound health and British nationality. The period of instruction will vary in accordance with the age of the individual and will be so arranged as to permit him to report for military duty at the appropriate time. Most of the training will be at the company's headquarters at Fort Dunlop, followed by a period at the depot nearest the pupil's home: short periods of training at Dunlop branches, sales and service depots in other cities will be necessary.

### Removal of Business Houses

The Minister of Home Security has been asked by the London Chamber of Commerce whether the Government can give any further guidance to London business houses who, at the outbreak of war, transferred some or all of their staff to temporary premises in the country and now wish to know whether it is desirable that they should bring their transferred staffs back to London. The following is an extract from a letter which has been sent to the Chamber on behalf of the Minister of Home Security: "In the view of the Government the factors in the general situation which led to the transference of businesses to safer areas at the outbreak of war remain unchanged and should be given the same weight as in September last. Firms which can

carry on outside London without serious dislocation of their work have acted in the national interest by removing their staffs to safer areas; and, if they have found it possible to carry on their business from the areas to which they have moved, they would be doing a disservice, not only to their staffs, but also to the national interests by returning now to London. The Government have never suggested that businesses which could not carry on outside London without serious loss of efficiency should remove to other areas; and it is for each individual firm to balance considerations of efficiency and convenience against the advantages of dispersal and to decide, in the light of the circumstances affecting its own business, which is the proper course for it to take. Firms which have transferred staff away from London will have had practical experience, during the course of the last four months, of the extent of the difficulties involved in working outside the London area; and to that extent they will be in a better position now than they were in September to weigh up the various considerations involved and to decide what is the proper course for them to adopt."

### Leicester

**EXPLOSION AT WORKS.**—An explosion occurred at the works of John Richardson & Co. (Leicester), Ltd., manufacturing chemists, Leicester, on January 9, resulting in one workman being killed and four others injured. There was a slight outbreak of fire following the explosion, but this was quickly got under control.

**ANALYST'S REPORT.**—The tenth annual report of the Leicester City Analyst (Mr. F. C. Bullock, B.Sc., F.I.C.) includes the following items. A sample of bismuth tablets examined contained 7.5 per cent. of French chalk. Four samples of spirit of sal volatile were found deficient in both ammonia and carbon dioxide, and it was learned that a final but unauthorised filtration through activated carbon had been carried out by an assistant to give a bright product. The labels of two brands of borax contravened the Public Health (Preservatives, etc., in Foods) Regulations. One sample was described as, among other things, "A useful cleanser, antiseptic and preservative." Another sample had on its wrapper: "Borax disinfects. Borax destroys taint. Fresh meat and poultry are preserved by washing in borax water. Borax stiffens linen. Borax water brightens carpets. Borax improves the colour of green vegetables while boiling." Three samples of lime water tested during the year did not comply with the British Pharmacopoeia limit test for chlorides; the amounts of soluble chloride present in each suggested that tap water had been used instead of distilled water. Two samples were unsightly, turbid preparations that contained a

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Late news in  
Coloured Supplement

good deal of insoluble calcium carbonate, in addition to the required amount of soluble lime. One sample of dandelion essence sold as a "health food," with label specially recommending it "for those suffering from weak stomachs, dyspepsia and indigestion," contained fifty parts per million of copper. A malt vinegar manufacturer was amazed to hear that his product contained as much as 11 parts per million of copper, and stated that the amount present normally was from one to four parts per million, derived from the raw materials and from phosphor-bronze parts of pumps and coolers. In this instance a defective pasteurising plant was identified as having introduced the excess of copper, and a process of filtration was substituted for pasteurisation. A yeast-extract manufacturer blamed the brewer who supplied the yeast for the high copper content in his product, and rather took the attitude that, as yeast was a by-product of the brewer, he could not be expected to take any trouble to ensure the absence of copper or anything else. A promise was obtained to replace copper with stainless steel and monel metal plant and thereby reduce the degree of copper contamination.

### Merseyside

PRESENTATION TO LIVERPOOL ASSOCIATION.—Mr. John Rae has presented to the Liverpool Chemists' Association, of which he is immediate past president, a framed portrait of Mr. Joseph Clay, first president of the Association (in 1849).

WHIST DRIVE.—Birkenhead and Wirral Pharmacists' Association's first social event of the season—a whist drive—which was held recently at Rock Ferry, yielded about £3 for the Pharmaceutical Society's Benevolent Fund. Prizes for the event were donated by Allen & Hanburys, Ltd.; John Thompson (Wholesale Druggists, 1923), Ltd.; R. Sumner & Co., Ltd.; United Chemists' Association, Ltd., Cheltenham; and Evans Sons Lescher & Webb, Ltd. Donations were also sent by Mrs. Noel Jones, Messrs. E. F. Metcalfe, and C. H. Wright. Prizewinners in the whist drive were: *Ladies*: 1, Mrs. D. E. Jones; 2, Miss M. Robertson; 3, Mrs. J. Neal; interval, Miss M. Robertson. *Gentlemen*: 1, Mr. F. Snow; 2, Mr. J. W. Waterworth; 3, Mr. F. Haworth; interval, Mr. F. Snow. A pen and pencil given by Allen & Hanburys, Ltd., was raffled; this yielded 25s. Mr. J. W. Waterworth (social secretary) was M.C.

### Sheffield

BRANCH OFFICERS ELECTED.—At a meeting of the executive committee of the Sheffield Branch of the Pharmaceutical Society recently the following officers were elected for 1940—*Chairman*, Mr. W. Wood; *Vice-chairman*, Mr. J. T. Appleton; *Secretary*, Mr. E. A. Kirman, 37 Renshaw Road, Sheffield, 11; *Treasurer*, Mr. C. P. Gilbert.

WINTER PROGRAMME.—Sheffield Branch of the Pharmaceutical Society will carry out its winter programme of meetings, which will be held monthly at the Grand Hotel, Sheffield, on Thursday afternoons at 3 p.m. The first takes place on January 25, when a film show will be given by J. Wyeth & Sons. A dinner that is being arranged for February will terminate before the hour at which the black-out begins.

### Miscellaneous

LIGHTING OFFENCE.—At Nelson Police Court, on January 6, Mr. J. Hayhurst, M.P.S., was fined 10s. for a contravention of the Emergency Lighting Order.

CHEAP TELEPHONE CALLS RESTORED.—It is announced that the Postmaster-General will reintroduce during February certain reduced charges for telephone calls suspended on the outbreak of war.

FOOD AND DRUGS ACT PROSECUTION.—At Clerkenwell Police Court, London, on January 15, L. Erculiani, Herbal Hill, E.C.1, and V. Salvo & Co., Ltd., Queen Victoria Street, E.C.4, were summoned in respect of olive oil alleged to have been adulterated with soya bean oil and arachis oil. A plea of not guilty was entered on behalf of the first defendant, who, it was stated, in purchasing the oil from the second defendants believed that he was purchasing pure olive oil. The charge against him was dismissed. The solicitors for V. Salvo & Co., Ltd., stated that following an explosion which resulted in damage to their warehouse, in the course of salvage the contents of damaged tins had been emptied into others, and it appeared that the workman concerned must have mixed the various oils. As far as possible the company were now trying to recall any of this oil which had been sent out. A fine of £10 was imposed.

## Irish Notes

CORK CHEMISTS' DANCE.—There was a large attendance on January 6 for the annual dance of the Cork Pharmaceutical Chemists' and Students' Society. The committee in charge of the organisation consisted of the Misses Maureen Lee (secretary), Aida Daly and Mary Barry, and Messrs. Michael MacManus (chairman), R. Daly, Liam Johnson, and H. O'Donnell.

PHOTOGRAPHIC DEALERS' ASSOCIATION.—The Eire Branch of the P.D.A. is holding a general meeting at the Hotel Metropole, Cork, on January 23. It is open to non-members and members of the P.D.A. in Cork City and County. The meeting will be attended by Mr. G. A. McLean Lee, M.P.S.I., Dublin, the president of the Eire Branch, and Mr. Lyall Smith, M.P.S.I., the secretary. Prior to the meeting Mr. Lyall Smith will give an illustrated lecture to the Cork Camera Club on "Some Aspects of Colour Photography." The Dublin members of the P.D.A. will have an opportunity of hearing a somewhat similar lecture from Mr. Smith on April 9. On February 8 Mr. Meil (Ilford, Ltd.) will lecture to the Dublin P.D.A. members on "Miniature Photography" at Jury's Hotel at 8.30 p.m. On February 28 the annual meeting of the Eire Branch will be held at Jury's at 8.30 p.m.

CHEMISTS' AND STUDENTS' DANCE.—Pharmacists and their friends to the number of over 500 were present at the twelfth annual dance of pharmaceutical chemists and students held at the Gresham Hotel, Dublin, on January 8. Dancing went on till the early hours of the following morning, and at intervals spot prizes were awarded to lucky couples. The committee responsible for arranging the event included Messrs. P. S. Lalor (president), F. C. Kavanagh (vice-president), T. B. O'Sullivan (treasurer), D. Murphy (secretary), M. Walshe (M.C.), the Misses G. Knox and M. Mathews; and Messrs. V. A. Tully, J. M. Ryan, T. Esmonde, M. J. Hanna, and P. E. Redmond.

Among those present were Mr. P. A. Brady (president, Irish Drug Association) and Mrs. Brady, Mr. S. T. McAuley (Irish Pharmaceuticals, Ltd.) and Mrs. McAuley, Mr. and Mrs. T. J. Gleeson, Mr. H. Harris, Mr. and Mrs. Leonard, Messrs. P. Keogh, C. A. Collis, G. S. Smyth, E. Dowling, J. O'Reilly, W. Prendergast, A. Cotter, M. Lalor, J. M. Chalby, M. Martin, M. Kilmurray, M. Brown, J. Foley, J. Curran, M. Daly, F. Killoran, Mr. Smullen, Mr. McHale, Mr. Chesson, Mr. Deacon, Mr. Jones, Mr. Citron, Mr. Foley, Misses G. Donegan, T. and L. Boulger, Hyland, M. Grey, M. C. Fox, P. Morris, M. Mathews, E. O'Connell, M. O'Gorman, M. Gaffney, B. Gilteece, M. Coughlan, M. Ryan, P. Goggin, M. Farrell, M. Bolger, G. Sullivan, O. Sullivan.

## Scottish Notes

SUB-LIEUT. T. E. GRAY, R.N., son of Mr. T. E. Gray, M.P.S. (Scottish representative for Allen & Hanburys, Ltd.), has been promoted Lieutenant.

DONATION TO RED CROSS.—The employees of Duncan, Flockhart & Co., manufacturing chemists, Edinburgh, have paid over a sum of £3 8s. 6d. to the Edinburgh Red Cross Fund. This is the second of a series of four-weekly contributions.

MR. WATERBURY (East of Scotland representative for W. & R. Hatrick, Ltd., manufacturing chemists, Glasgow) has been transferred to the City district, in succession to Mr. Shields. The new East Scotland representative is Mr. Keddie, until now a member of the inside staff.

COMPULSORY REGISTRATION SUGGESTED.—At a meeting of the Scottish Distributive Trades' Federation recently a resolution was passed of which the following is a summary.—"That this meeting of the Scottish Trades' Federation, recognising the necessity for better organisation in the trade, and looking to the help which might be given to the Government in matters of national importance, as well as to the desirability of the Government's seeking and maintaining contact with trade organisations and thus making available to themselves the fullest information, resources and support of the trades concerned, draw the attention of the Government not only to the unfairness of the expense of this having to be borne, in most cases, by a minority in the trade, but also the great advantage to the community that would result from having a complete record of all employers in the trade, and urge that steps should be taken by the Government, either through a system of annual registration of all employers engaged in each trade, through their respective Trade Associations, and with an adequate annual registration fee or otherwise."

# Imperial and Foreign News

## Australia

**NO ANNUAL FEE.**—The Supreme Court recently upheld a magistrate's decision that a chemist who had obtained a certificate from the Pharmacy Board of New South Wales to practise as a pharmacist was entitled to do so as long as he remained a registered pharmacist, and was not required to renew his certificate each year.

**WESTERN AUSTRALIA PHARMACEUTICAL HEADQUARTERS.**—The Pharmaceutical Council of Western Australia, which has been housed for many years in the Perth Technical School, will shortly move into its own quarters in the College grounds.

**PHARMACISTS AND A.R.P. WORK.**—Pharmacists in all States have come well to the front in connexion with air-raid precaution work. The various pharmaceutical societies have provided courses of instruction, and in a number of instances pharmacists have been appointed air wardens. Classified lists of pharmacists willing to act as gas reconnaissance officers have been supplied to the State Emergency Councils.

**MEDICAL EQUIPMENT BOARD.**—The Commonwealth Government has set up a central medical co-ordination committee at the seat of Government at Canberra. The Committee will control all drugs and medical equipment so as to ensure their best use for the armed forces and civil populations during war-time. Committees will be set up in each State, empowered to regulate, restrict or prohibit the production, storage, distribution, sale, purchase and use of medical equipment, and compulsorily to secure information relating to equipment from organisations handling such commodities.

## France

**PARIS FAIR.**—The May, 1940, Fair will include as usual a competition for inventors, entries for which will be accepted from allied and neutral countries. Last year 769 inventions were presented by 517 inventors belonging to fifteen countries. Despite numerous difficulties, the committee will distribute the prizes of the same value as previously. The jury will thus have at its disposal 25,000 francs in cash, *plus* the medals and diplomas offered by the President of the Republic, members of the Govern-

ment and certain Paris groups. Inventors should apply for admission of their entries before March 15 to the committee of the Fair, 23 Rue Notre Dame des Victoires, Paris, and inventions must be delivered at the park of the Porte de Versailles on May 3 or 4 at the latest, so that the jury may make its selection before the Fair opens on May 11.

## India

**SPIRITUOUS PREPARATIONS EXEMPTIONS, BOMBAY.**—The Commissioner of Excise, Bombay, has notified the Committee of Manufacturers' Agents and Importers of Pharmaceutical and Toilet Preparations that, under the ban on advertising, etc., of spirituous preparations (see *C. & D.*, 1939, II, 150), no restriction is placed on the possession and transport or sale of microscopic stains, surgical catgut and ligatures, provided an Excise pass is obtained by anyone requiring alcohol for preservation of these products. It is further understood that the Government has no objection to the possession and use by qualified veterinary surgeons of spirituous medicinal preparations. The ban on advertising such preparations, except tonic wines, has been temporarily removed.

## Turkey

**GERMAN FIRM SUSPENDS ACTIVITIES.**—It is announced from Istanbul that the Bayer organisation (a subsidiary of I. G. Farbenindustrie, A.G.), is ceasing all activities in Turkey as from March 1.

## United States

**U.S.P. STANDARDS FOR PURIFIED COTTON.**—The Board of Trustees of the United States Pharmacopœial Convention has announced that enforcement of the new U.S.P. standards for Purified Cotton (Absorbent Cotton), recently issued in the Second U.S.P. XI Supplement, will not be effective until July 1, 1940. Postponement is due to the extensive changes in commercial practice necessitated by the requirements. Investigations are, moreover, being conducted, in the Cotton Economics Bureau of the Department of Agriculture, into the average fibre length of acceptable varieties of absorbent cotton.

# Topical Reflections

By Xrayser

## A Difficult Problem

The last has not been heard, it may be hoped, of suggestions for helping owners of businesses hit by war conditions beyond their control (pp. 24, 29). Any committee entrusted with the task of selecting cases suitable for assistance would have to consider, as an essential point, the prospects of the applicants, having regard to locality and other factors. If the sum required is, as we are given to understand, likely to amount to £52,000 in the first year of the war, what further cost is likely to accrue, and how is this sum or any part of it to be raised? Without underrating the difficulty of conducting an appeal for financial help in present circumstances, I suggest that the possibility of the disappearance of privately owned pharmacies which, but for the exigencies of the war, would be maintaining or increasing their turnover is not to be dismissed with a shrug of the shoulders. Even in peace-time the tragedy of forced sales of businesses to multiple concerns at negligible prices is not unknown; and it will be repugnant to our instincts if this process is allowed to happen on a large scale during the present war. The problem is too great, I fear, to be attacked locally.

## Standardisation of Drugs

In his Harrison Memorial lecture (p. 31) Mr. Arthur D. Powell dealt lucidly with a subject that needs to be brought to notice from time to time. Those who attend the annual meetings of the British Pharmaceutical Conference—and do their duty when the Science Section meets—can keep themselves posted in the changes that may be taking place in this respect; but for the majority of practising pharmacists these opportunities are rare. With Mr. Powell's views on the practicable limits of analytical scrutiny there will be general agreement. In this

country, thanks to the efforts of the late Sir William Glyn-Jones and other pioneers, the defences of a supplier who is attacked by a public analyst are by no means ineffective. It seems to me that further advances in precision in analytical processes should be settled on the lines of the International Agreement of 1906 and of the draft Agreement signed at Brussels in 1925. Article 36 of the latter document points the way towards international uniformity in pharmacopœial products and their tests. This is the concern of all civilised nations; and where more than one method of testing appears to give satisfactory results, there can still be agreement, if the necessary good will is present, on the one to be adopted officially. It may be that this matter will have to remain in abeyance for the present.

## Paler Shades

While it is, no doubt, important that the Services should have the first call on new dyes and dyestuffs made under licence, one reads with a certain amusement the hint to economise in this sphere by using paler shades (p. 22). It was Stephen Phillips, I believe, who wrote of "that greener green, that bluer blue": had he been living he would have had to devise another phrase or drop out of the vogue. Men, not being addicted to the exhibition of colour except in neckties, can manage tolerably well in the new order of reduced shades; but what is to happen to the gorgeous frocks that brighten social functions? And if paleness is to be the rule for fabrics, how will face powders and other cosmetics fare? Even pill-coating may suffer, becoming a mere travesty of its former self; and the coloured lozenges and tablets beloved by the fastidious may fade to a ghostly pallor. When the Government sets an example in the tint of its Treasury notes, we shall perhaps begin to regard the suggestion more seriously.

# Company News

P.C. means Private Company and R.O. Registered Office

**HESTON PRODUCTS, LTD. (P.C.)**—Capital £500. Objects: To carry on the business of chemists and druggists, dentists and opticians, etc. Ernest Pope, "Wayside," Yew Lane, East Grinstead, Sussex, and Percival J. A. Cathcart, M.P.S., 132 Latymer Court, London, W.6, directors. Solicitor: W. H. Newton, Bank Chambers, 329 High Holborn, London, W.C.1.

**QUICKSILVER DEVELOPMENT, LTD. (P.C.)**—Capital £1,000. Objects: To carry on the business of financiers; to acquire, develop and turn to account any mines, mining rights and metalliferous lands in any part of the world, and to carry on the business of manufacturers of chemicals, metallurgists, and mechanical engineers, etc. The first directors are to be appointed. R.O.: 112 Fenchurch Street, London, E.C.3.

**B.B. TECHNICAL INDUSTRIES (MANUFACTURING), LTD. (P.C.)**—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in chemicals and chemical substances, minerals of all kinds, fluorescent and luminescent materials, etc.; to acquire the business carried on at Mowbray House, Ealing Road, Northolt, Middlesex, as B.B. Technical Laboratories, Ltd.; and to adopt an agreement between the said company and W. D. Furniss. William D. Furniss, Gerard F. Brennan, John P. Brennan, Frank Humphries and Leonard M. Scrutton, directors. R.O.: Princes Court, Princes Street, London, E.C.2.

**BRUSH ELECTRICAL ENGINEERING CO., LTD., LOUGHBOROUGH**—The following have been elected to the board: Captain Richard C. Petter, M.I.Mech.E. (a director of Associated British Engineering, Ltd., London, and Petters, Ltd., Loughborough), and Mr. Charles L. Hill (a director of Associated British Engineering, Ltd., London, Heenan & Froude, Ltd., Worcester, and managing director of Charles Hill & Sons, Ltd., Bristol).

**A. MILLAR & CO., LTD.**—The directors' report and accounts for the year ended October 31, 1939, show that after making due provision for salaries, repairs, bad debts, directors' fees, etc., the net profit, including the balance of £6,747 10s. 7d. brought forward from last year, amounted to £12,337 15s. 9d. An interim dividend of 5 per cent. per annum on the preference shares was paid last June, amounting (less income tax) to £1,150, leaving a balance of £11,187 15s. 9d. A final dividend on the preference shares at the rate of 5 per cent. (less income tax)—£1,087 10s. od.—was paid in December last. There remains a sum of £10,100 5s. 9d. out of which the directors recommend the payment of a dividend of 4 per cent. (less income tax) on the ordinary shares, £2,900; provision for increased income tax, £500; carried forward, £6,700 5s. 9d. Major R. M. Millar was co-opted during the year to fill a vacancy on the board. The retiring directors (Mr. J. W. Morgan and Major R. M. Millar) were re-elected at the annual general meeting.

## Pharmaceutical Society of Ireland

### Council Meeting

THE January monthly meeting of the Council of the Pharmaceutical Society of Ireland was held on January 9, the president (Sir Thomas Robinson) in the chair. Other members of the Council present were Messrs. P. C. Cahill, F. J. Fitzpatrick, P. J. Fielding, B. P. Hickey, T. C. Scott, J. K. Whelehan, C. Cremen, P. Brooke-Kelly, J. Gleeson, M. J. Parkes, J. A. O'Rourke, and Miss F. M. Flood.

### GREETINGS RECEIVED

Greetings were received from the Nuncio Apostolic, the President of the Pharmaceutical Society of Great Britain, the President and Council of the Pharmaceutical Society of Northern Ireland, and the Pharmacy Board of Tasmania.

### PROSECUTIONS BROUGHT BY THE SOCIETY

Mr. G. A. Golden, M.P.S.I., Westport, as secretary of the Mayo Pharmaceutical Association, wrote: "The following resolution was passed at the last meeting of the Mayo Pharmaceutical Association held on December 17, 1939, in the Railway Hotel, Westport: 'That where prosecutions under the different Acts be dismissed against the Society the latter should appeal these cases to a higher Court.'"

The text of the following reply submitted by the Registrar (Mr. J. J. Kerr) was approved: "For your information may I state that we hardly ever have a case dismissed. What frequently happens is that the magistrate convicts and applies the Probation of Offenders Act. This is sometimes reported as a dismissal under the Probation of Offenders Act, but technically it is a conviction and there is no appeal from it. This particular difficulty was the subject of a deputation from the Council to the Minister for Justice last year. The Minister heard the views of the deputation and promised his assistance to try and have matters put on a better footing in future."

The terms of the reply were approved of by the Council.

### CHANGES OF ADDRESS

The following changes of address were notified: Mr. A. L. Hanrahan, M.P.S.I., from Lismore, co. Waterford, to The Blackwater Vale Pharmacy, Lismore; Mr. G. F. Hinchy, M.P.S.I., from Blackrock, co. Cork, to 7 Parliament Street, Cork; Mr. P. J. Higgins, M.P.S.I. (1887), from Market Street, Cooteshill, co. Cavan, to Main Street, Bailieboro, co. Cavan; Mr. D. L. Kirkpatrick, L.P.S.I., from Sandown Park, Belfast, to 136

Sandown Road, Belfast; Mr. J. F. Ranaghan, L.P.S.I., from 18 W. 192 Street, New York, to Parke Davis & Co., 181 Hudson Street, New York; Mr. R. T. Henry, Assistant R.D., from Bellevue, Landscape Terrace, Belfast, to 18 Osborne Gardens, Banbridge, co. Down; Mr. G. A. Murray, assistant, from Byfield House, Mayfield, Cork, to 84 West Street, Drogheda.

### REGISTRATION ITEMS

Matriculation certificates were submitted by the following, who were granted Preliminary registration: Misses E. A. Cullen, E. Hannigan, and A. M. S. Johnson, Messrs. P. P. Farrelly, M. A. Gearty, R. M. J. Magnier, and J. J. McMorrow.

The Registrar reported that the following had been removed from the Registers under Section 25: W. F. Herlihy, Ph.C. (1741) and James Ryan, assistant (673).

Mr. T. J. Mulvihill was elected a member of the Society and the Licence certificate of Mr. Laurence O'Dea was signed and sealed. An application by Mr. A. Paul, submitting an R.D. Certificate and requesting restoration to the Register of Registered Druggists was granted.

### REPORTS FROM COMMITTEES

The reports of the House, Law, Schools, and Certificates and Declarations Committees were submitted and approved. The report of the latter Committee stated that thirty-nine candidates entered for the Licence examination and one for the Registered Druggist examination.

### DEATHS

The deaths of the following were reported by the Registrar: S. D. McKinley, Ph.C., S. R. Anderson, R.D., and A. Andrews, R.D.

### LECTURES ON POISON LAW

Referring to the series of lectures on poison law started by the Council this month, Mr. Fitzpatrick said it was not possible for Miss Fogarty, the lecturer in pharmacy, or Mr. Collins, the lecturer in botany and *materia medica*, to give the lectures in connexion with their courses, but the work had been undertaken by the Registrar. Eighty-six people had availed themselves of the opportunity of attending these lectures already, and they were unanimous on the success of the series. The Council need have no anxiety in future with regard to people presenting themselves for examination in poison law, in view of the lectures now being given. They all owed a tribute to Mr. Kerr for what he had done in this matter.

# Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

## Syrup of Codeine Phosphate

SIR,—I see from the *C. & D.*, December 30, 1939, that syrup, codein, phosph. is to be restored to the B.P. according to the formula of 1914. This formula does not seem to be very satisfactory, as fermentation usually occurs in the syrup within a few weeks, due, no doubt, to the addition of water to B.P. syrup, codeine phosphate having no preservative properties. Would not the following method be an improvement? Dissolve the codeine phosphate in part of the water normally belonging to syrup, dissolve the sugar in the remaining part of water, mix the solutions, and make up to the required volume; or, since codeine phosphate is not destroyed by heat, heat the codeine phosphate, sugar and water, and make up to required weight as for syrup B.P.—Yours faithfully,

West Bromwich.

P. M. WRIGHT.

## Prices of Dressings

SIR,—One of my staff recently supplied  $\frac{1}{2}$  lb. white lint to one of the local midwives, and charged her 2s. I had myself a few weeks before priced this as the retail price to be charged. This morning the midwife brought a letter for me to see from the County Medical Officer in which he indignantly pointed out that there was no justification for the extra charge and if she could not obtain this commodity at the price she had always paid she must let him know and he would send along six to twelve months' supply. The latest *C. & D.* list gives the price of  $\frac{1}{2}$  lb. plain lint at 2s. 6d. and the latest N.P.U. list gives the price at 2s. 5½d. In common with everybody else, the West Riding of Yorkshire must expect to pay more for their goods as long as the manufacturers demand an increase. And I am of the opinion that the price charged on this occasion was a modest one and 20 per cent. under the market rate. I think it desirable to bring this to your notice as other chemists will probably find themselves in a similar position and, in view of the doctor's obvious lack of knowledge of the state of the market, will render themselves liable to unjustified suspicion.—Yours faithfully,

Rossington.

L. F. ADDEY.

## Cod Liver Oil Statistics

SIR,—Trade statistics show some quite curious features, and those quoted by Mr. Hall in the *C. & D.*, January 6 (p. 18) certainly do. Taking Mr. Hall's quoted figures, they lead to the ridiculous conclusion that the price of all cod liver oil, including poultry and technical grades, exported from Hull and Grimsby to America from January to June 1939, was much higher per gallon than the price of medicinal oil alone exported during this period:—

Period	Cod Liver Oil	Quantity: gallons	Total Value	Value per gallon
January to June 1939	Medicinal, technical and veterinary	514,000	\$409,000	\$0.80
January to June 1939	Medicinal only	210,987	\$116,263	\$0.55

The value per gallon for the mixed oil is apparently almost double the value of the medicinal. Mr. Hall, with his experience of the cod liver oil market, cannot surely have quoted these figures seriously, or analysed them properly before quoting them in support of the contentions in his letter. Actually, prices for medicinal cod liver oil in the United States market were appreciably better than home prices until the period immediately preceding the outbreak of hostilities, when large amounts of German oil exported irrespective of any consideration other than obtaining exchange for military preparations were dumped into this market.—Yours faithfully,

for BRITISH COD LIVER OIL PRODUCERS (HULL), LTD.,  
Hull.

K. MACLENNAN.

## A Puzzling Order

SIR,—The coming into force recently of an Order under the Prices of Goods Act (*C. & D.* December 23, p. 564) is a sharp reminder of the possibility of a crop of frivolous complaints under the Act, complaints which will have to be considered with due

seriousness by the local committees set up. These committees, where they are constituted of level-headed citizens, will turn down any obviously foolish applications, as our stipendiary magistrates do every day in police courts; but we have no guarantee that all, or even the majority, of local committees will be so constituted. At present the number of articles sold by chemists and covered by the Order is not large: it may become much greater as time goes on, and we need to have a policy in readiness for any eventuality, bearing in mind that by virtue of the Order cranks and marauders will regard themselves as free to harass the commercial community. In most shops pre-war prices must come to an end sooner or later according to the classes of goods sold. What is "an increase representing the actual rise in costs and expenses?" I confess I can make little of the prices specified on p. 555. On what principle are they selected, and what do they imply? We need to be clear as to increases in overhead charges as well as rises in invoice prices: unless the former are taken into account we shall be embarking on a course that may be philanthropic but will certainly not be businesslike. Good accountancy will be essential.—Yours faithfully,

BUSINESS MAN (28/12).

## Pharmacists, New Style

SIR,—After reading your fourth editorial article on the future of pharmacy (*C. & D.*, December 23, p. 563) I feel that the outlook would be gloomy indeed if pharmacists were to be reduced to mere distributors of "the products of large-scale manufacture"—in other words, to keepers of cash registers. Happily your adjectives "highly trained" and "specialist" rescue us from such forebodings. There is still something to be said for "hand finish" in certain types of dispensing; but that is not the point to which I wish to call attention now. The problem is that of finding an outlet for the knowledge that every student should acquire before qualification. All qualified people cannot join the staffs of large-scale manufacturers, and the demands of routine dispensing in the average pharmacy are insufficient to enable the skilled craftsman to exercise all his gifts in this sphere. There is an obvious need for better prescribing: it would not be amiss if the medical Press took this matter up in earnest. Meanwhile the pharmacist who needs sufficient use for his knowledge can make a beginning with his own proprietaries, by overhauling obsolescent formulas and by experimenting with such machinery as his output warrants. Several interesting years may be spent in research of this kind, a matter not of abstract science but of applied science; and who knows what discoveries of general value may be made by the way?—Yours faithfully,

PER ARDUA (28/12).

## Retrospect of Fifty Years Ago

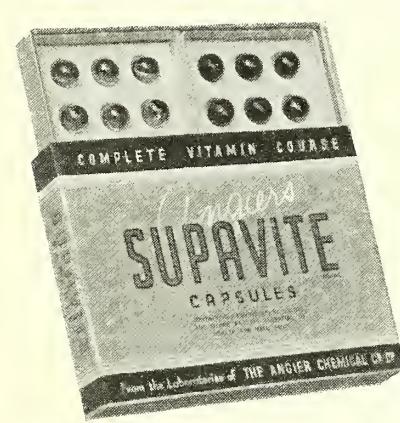
Reprinted from  
"The Chemist and Druggist," January 18, 1890  
Business Booming

The question occurs: are chemists and druggists sharing fairly in the general prosperity, or are they preparing to get their portion of it? For even in times when manna falls from heaven it is necessary to go out and pick it up. They have just had, in many places, an extraordinary breeze of fortune in the wind which wafted the influenza germs to the British Isles. But epidemic incomes are too precarious to be relied upon. The history of the past few weeks shows, however, how ready the public is to dose itself when anything like a reasonable excuse presents itself. We have often remarked on the difficulty which chemists seem to experience in realising the enjoyment the public takes in its physic. Proofs are overwhelming that no luxury trade is more capable of development than that of medicine. But we recognise that it would be cruel on the part of the pharmaceutical body to use the giant's power they possess too recklessly. Other people—grocers, bakers, and the rest—want a living also. Up to a certain point, taking medicine does not do much harm, but it might easily be carried to such lengths that undertakers only would benefit. But the public is going to be flush with money for other luxuries which chemists may legitimately and with advantage to everybody supply. The perfumery trade is not yet half cultivated as it should be.

# Trade Notes

**TORCH BATTERIES.**—The Needham Engineering Co., Ltd., Leopold Street, Sheffield, are in a position to supply from stock American torch batteries of various sizes. Further details are given in the company's advertisement in this issue.

**SUPAVITE CAPSULES.**—The Angier Chemical Co., Ltd., 86 Clerkenwell Road, London, E.C.1, have placed on the market under the name of Supavite capsules a scientifically-balanced combination of the six vitamins: A, B<sub>1</sub>, B<sub>2</sub>(G), C, D and E. In addition, the capsules contain other ingredients for their catalytic action to help the system to derive the utmost benefit from the vitamins. Supavite contains easily assimilable iron, calcium, phosphorus and lecithin. The illustration shows how the capsules are packed, the patient taking one amber capsule (vitamins A, D, E) and one black capsule for a dose.



D.D.D. PRESCRIPTION.—D.D.D. Co., Ltd., 3 Fleet Lane, London, E.C.4, intend to extend the advertising of their D.D.D. Prescription in a number of provincial and national newspapers. A price list of the company's preparations is included in their advertisement in this issue.

**BROOKLAX.**—Westminster Laboratories, Ltd., 4-12 Palmer Street, London, S.W.1, inform us that they have just started the largest advertising campaign ever undertaken by them in connexion with Brooklax. This preparation is British, and retail prices, discounts to trade and bonuses for display are being maintained at pre-war rates.

**DIARY.**—We have received from JAMES TAYLOR (TRONGATE), LTD., Glasgow, C.1, and Dundee, a pocket diary bound in fine-grain red morocco. The diary contains synopses of the Pharmacy and Poisons Act, 1933, and the Methylated Spirits (Sale by Retail) (Scotland) Act, 1937; hydrometer conversion tables; centigrade and Fahrenheit conversion tables; and other conversion factors.

**CALFOS TABLETS.**—Calfos, Ltd., Imperial House, Kingsway, London, W.C.2, have introduced a branded compressed tablet containing calcium and phosphorus in a readily-assimilable form. The tablets are packed in boxes of 50, and the attention of the medical profession is being drawn to their advantages. A booklet entitled "The Importance of Calcium and Phosphorus to Health" has been prepared, and copies can be obtained from the above address.

**STERISTALL FINGER STALLS.**—Britton, Malcolm & Waymark, Ltd., 38 Southwark Bridge Road, London, S.E.1, have sent us specimens of an improved finger stall which they have brought out under the above title. The advantages claimed for the stalls are that they are made with a specially-prepared leather that is practically waterproof, can be washed with soap and water, and sterilised by boiling without shrinking. The stall is made in

six sizes: small, medium and large finger and thumb, with either tape fastening or with adjustable wrist band and hook fasteners. The cost is slightly more than for the ordinary pattern.

**DAGENAN.**—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, have effected price reductions in regard to Dagenan (M. & B. 693). The range of packings of this preparation now includes containers of 25 x 0.125 gm. tablets, especially suitable for children, and Dagenan Sodium in 6 x 3 c.c. gm. ampoules. The new publication on Dagenan includes the latest data available and full details of the indications, dosage and administration of the drug. A specimen of this booklet has been sent to us by the manufacturers, who will send a copy to any medical practitioner with a mention of the name of the pharmacist who has requested them to forward the publication.

**HAIR-BLEACHING DEMONSTRATION.**—Before a large gathering of representatives of the Press a demonstration of the application of Hilton bleach was staged at the Waldorf Hotel, Aldwych, London, W.C.2, on January 16, by the County Perfumery Co., London, N.W.10. After a reception, Mr. N. F. Fabricius (managing director), introduced Mr. R. Buchanan (technical adviser), who carried out the demonstration on specially selected models to show the effect of Hilton bleach on different shades of hair. He explained each step in the process and answered questions raised by the audience. It was pointed out that over fifty shades of hair from black to palest blonde can be obtained by different degrees of bleaching, and that hair treated with the product can be permanently waved. The fine "raised tints" of the dried hair were contrasted with cuttings of untreated hair.

## Sales Conferences

**A. L. SIMPKIN & CO., LTD.**—A sales conference called to discuss the difficulties arising from the national emergency and to lay plans for a sales programme for 1940 took place in the board room at the registered office of the company, Hunter Road, Sheffield, on December 28, 1939. It was followed by a dinner and social function at the Albany Hotel, Sheffield. In his opening remarks the managing director complimented the representative staff on their excellent sales figures during the past year, and presented cheques to winners in the company's prize competition. He outlined the present difficulties with regard to sugar, glucose, and dextrose rationing, and outlined his policy in that direction for the coming months. Messrs. Simpkins are, as ever, he said, out to help the chemist in every way which lies in their power. A photograph taken at the conference is shown below.

**NEWBALL & MASON, LTD.**, manufacturing chemists, Nottingham, held a sales conference on January 6 at the Victoria Station Hotel, Nottingham, when representatives attended from all parts of England, Wales and Scotland. At the luncheon which preceded the conference, Mr. G. Havinden (chairman) expressed the gratitude of the directors to representatives who, in spite of travel difficulties, had come from a distance—in one case from Aberdeen—in order to be present. Mr. A. M. Poxon (a director long associated with the company) outlined the progress of the business since it first began its activities in 1850. Messrs. H. J. Teed and H. Coleman, who had both represented Messrs. Newball & Mason for many years, expressed appreciation of the way in which the company had always treated them. Mr. E. M. Durham (responsible for factory organisation) indicated that many alterations were now taking place in the factory, and the installation of modern plant. Messrs. F. C. Tapp, H. Chadwick, North Wales, J. A. Chapman, Birmingham, and other representatives also made contributions to the discussion.



Group photographed at sales conference of A. L. Simpkin & Co., Ltd.

## Personalities

**LORD DUDLEY GORDON** has been nominated president of the Federation of British Industries.

**MR. WILLIAM J. PEACOCK**, M.P.S., Sittingbourne, has been appointed a justice of the peace.

**MR. ALBERT SCRAGG**, M.P.S., 8 Midland Road, Swadlincote, has been appointed the first chairman of the Swadlincote and South Derbyshire Chamber of Trade.

In connexion with the welfare scheme for the troops in the Eastern Command, Dr. F. W. Crossley-Holland has been appointed welfare officer for Bedford.

**MR. P. BISHOP** (Percy Bishop, Ltd., chemists), Tilehurst, Reading, has been elected Provincial Grand Primo of the Reading and District Province of the Order of Buffaloes.

**MR. W. L. ALEXANDER**, M.P.S., a partner in the firm of Bailey & Alexander, chemists, Strait Bargate, Boston, Lincs, was, on January 9, installed Worshipful Master of the Boston Freemasons Lodge of Harmony (No. 272).

**MR. R. MACDONALD MURRAY**, M.P.S., Middlesbrough, secretary of the Tees-side Branch of the Pharmaceutical Society, was knocked down by a bus on January 10 and his right arm was broken. He is now in the Stockton and Thornaby Hospital in a somewhat serious condition.

**MR. C. E. STEPHENS**, managing director of Stephens Brothers & Banner, Ltd., essential oil importers, London, E.C.2, celebrated his sixty years in this business on January 16. He entered as junior clerk in the year 1880 and was made a partner in 1910, in the firm of Spies Brothers & Co., Great Tower Street, and bought out the two Mr. Spies in 1912. In the same year he took his brother into partnership and in 1928 Mr. D. H. Banner entered the firm. This business is therefore among one of the oldest established essential oil merchants in London. It was formed into a private limited company in 1932. Mr. Stephens, who is a member of the Gold and Silver Wyre Drawers Company, was presented with the Freedom of the City of London during the last war.

**MR. W. WOOD**, who has been elected chairman of the Sheffield Branch of the Pharmaceutical Society (see p. 14), was born at Ilkley, Yorkshire, and educated at Halifax grammar school and at Southall County School, Middlesex. He served his apprenticeship in Bradford, with a subsequent period as assistant at Ealing, London, before attending the London College of Pharmacy, where he was bronze medallist in *materia medica*. After passing the Minor examination in 1916, he went to Bradford as an assistant for some months before joining the Durham Light Infantry, in which he saw nearly two years of active service in France. Mr. Wood commenced business in Sheffield in 1922. He is a vice-chairman of the Sheffield Pharmaceutical Committee, a past-chairman of the local branch of the Photographic Dealers' Association, and was secretary of local branch of the Pharmaceutical Society for three years.

## Marriages

**TUNICLIFFE—PEBERDY**.—On January 2, Sapper Tuncliffe, to Betina, daughter of Mr. T. C. Peberdy, M.P.S., Leicester.

**WILD—WHITLES**.—Recently, Mr. Eric Wild, M.P.S., Chester Avenue, Bamford, Rochdale, to Marjorie Whittles.

## Deaths

**BAIRD**.—At Esher, Surrey, recently, Mr. Douglas Heriot Baird, C.B.E. (Baird & Tatlock (London), Ltd., scientific instrument makers, London, E.C.1).

**BARLEY**.—Recently, Mr. Maurice Arthur Hurd Barley, M.P.S., Ditchling Road, Brighton, aged sixty-two.

**DUNCAN**.—At Glasgow, on January 2, Mr. George Duncan, representative of C. J. Hewlett & Son, Ltd., Charlotte Street, London, E.C.

**JEFFERY**.—Recently, Mr. Arthur Harold Ernest Jeffery, Royden Road, Diss, aged seventy-two. Mr. Jeffery passed the Minor examination in 1889, and was in business in Diss for many years.

**LANGFORD**.—At 1 Heathcote Road, Boscombe, Bournemouth, on January 5, Mr. William Stockdale Langford, aged eighty-six. Mr. Langford was a director of C. W. Field, Ltd., manufacturing chemists, Liverpool, whom he represented in the North of England and the whole of Scotland for forty-five years, retiring six years ago.

**LAWTON**.—On January 2, Mr. Henry Smith Lawton, M.P.S., Bell Green, Coventry, aged seventy-eight.

**PALMER**.—At 54 Gloucester Road, Hampton, Middlesex, on January 13, Mr. Charles James Palmer, M.P.S. Mr. Palmer, who carried on business at King Street, Twickenham, for forty years, was one of the founders of the Thames Valley Pharmacists' Association and occupied the chair in 1904 and 1936. At the beginning of the present century, when chemists' associations were beginning to be formed around London, Mr. Palmer took active steps in assisting the formation of many which are today thriving bodies. He also took a prominent part in the promotion of some of the Pharmacy Bills which appeared before the Poisons and Pharmacy Act, 1908. He was keenly interested in local affairs and was for some years a sidesman at the parish church, Twickenham. Mr. Palmer is survived by one daughter and three sons.



MR. C. J. PALMER

**PLEVIN**.—Recently, Mr. John Plevin, M.P.S., Church Road, Wavertree, Liverpool, aged seventy-nine.

**PRIDEAUX**.—At "The Grange," Motcombe, Shaftesbury, on January 4, Mr. Charles Prideaux, aged eighty-seven. Mr. Prideaux was chairman of Prideaux's Pure Casein & Life Food Co., Ltd., and of C. & G. Prideaux, Ltd., and was actively associated with the business almost to the time of his death.

**ROBERTS**.—On January 1, Mr. William Percy Roberts, M.P.S., Park Pharmacy, Deepdale Road, Preston, aged thirty-eight. Mr. Roberts was chairman of the local association a few years ago.

**STILES**.—On January 7, Mr. Henry William Stiles, M.P.S., representative in the Midlands for Cuxson, Gerrard & Co., Ltd., Oldbury. Mr. Stiles, who passed the Minor examination in 1904, was honorary secretary of the original Branch of the Society in Doncaster, and at the time of his death was chairman of the social subcommittee of the newly-formed Branch. He was also chairman of the Doncaster Branch of the United Commercial Travellers' Association.

**TOOHIG**.—Recently, Mr. Albert William Toohig, M.P.S., High Street, Narberth. Mr. Toohig passed the Minor examination in 1891.

**WHITNEY**.—On January 2, Mr. Alfred Whitney, M.P.S., Lambeth, London, S.E.1, aged seventy-two.

**WILLIAMSON**.—On January 9, Mr. Edward Fields Williamson, M.P.S., Worthing, aged eighty-two. Mr. Williamson was in business in Grimsby, retiring about twelve years ago.

**WOOLSTENCROFT**.—On January 10, Mr. Benjamin Woolsten-croft, Crewe Road, Nantwich, aged eighty-seven. Mr. Woolsten-croft was for many years in business in Hospital Street, Nantwich.

## Recent Wills

**MR. ALFRED DODDS PURSE**, 16 Salem Street, Sunderland, chemist and druggist, who died on October 17, 1939, left £4,442, with net personalty £2,859.

**MR. FRANK MOSS**, chemist, Stoke Hill, Stoke Bishop, Bristol, who died on September 28, 1939, left property of the value of £24,199, with net personalty £18,483.

**MR. MAJOR HILL**, 11 Chessel Avenue, Boscombe, Bournemouth, chemist and druggist, who died on October 6, 1939, left £17,489, with net personalty £13,600.

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## STATEMENT OF ACCOUNTS

December 31, 1939

LIABILITIES			£
Capital paid up	...	...	15,158,621
Reserve Fund	...	...	12,410,609
Current, Deposit and other Accounts	...	...	497,701,601
Acceptances and Confirmed Credits	...	...	7,753,907
Engagements	...	...	9,693,446

## ASSETS

Coin, Notes and Balances with Bank of England	...	...	57,741,467
Balances with, and Cheques on other Banks	...	...	21,438,321
Money at Call and Short Notice	...		26,328,499
Bills Discounted (British Treasury Bills £46,214,794)	...	...	65,947,653
Investments	...	...	114,455,271
Advances and other Accounts	...		220,689,155
Liabilities of Customers for Acceptances, etc.	...	...	17,447,353
Bank Premises	...	...	9,631,542
Shares in Yorkshire Penny Bank Ltd.	...	...	937,500
Shares in Affiliated Companies:			
Belfast Banking Co. Ltd.	...		
The Clydesdale Bank Ltd.	...		
North of Scotland Bank Ltd.	...		8,101,423
Midland Bank Executor and Trustee Co. Ltd.	...	...	

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## Information Department

### INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

W/ri Castex plaster of Paris | S/ro Octopus optical appliances.  
bandage. B/ro Surfyl precipitated chalk.

# THE CHEMIST AND DRUGGIST

VOL. CXXXII

January 20, 1940

NO. 3128

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## Excess Profits Tax

WHEN imposing the excess profits tax in the Emergency Finance Act last autumn, the Chancellor of the Exchequer said there would be time before the normal Budget in the spring for the consideration of any amendments. In view of this statement the Federation of British Industries has presented a memorandum to the Chancellor. It will be appreciated that the war of 1914-18, when excess profits duty was imposed, succeeded a time of mainly steady and profitable trade, whereas the present war follows a period which to many industries brought sub-normal or greatly varying trading conditions. This difference in circumstances between 1939 and 1914 makes it most necessary that the reliefs available to the taxpayer for E.P.T. should be at least as great as were deemed just for E.P.D. It is recognized that there is a wide choice of periods which may be taken for the purpose of establishing standard profits, but, under the present Act, the year 1938 cannot be included even for the purposes of an average. This omission may work unfairly, and the Board of Referees should be given power to permit a taxpayer, or an industry, or section of an industry, to include 1938—at least in an average with one of the preceding years. The Act recognises that in certain cases the profits standard may not give a fair basis of calculation. The memorandum expresses the strongest exception to the substituted standard being based upon an arbitrary rate of interest calculated upon the ordinary share capital. This, it is suggested, is a totally fictitious basis for calculating the profit-earning capacity of a company. The profits of an established company are earned not merely by the ordinary share capital but by this capital supplemented by undistributed profits which have been put back into the business, and it would seem just that the basis for computing the capital standard must have regard to the reserves invested in the business. It is thought desirable that there should again be given the discretionary powers, in connexion with various points, which, under the old excess profits duty, were granted to the Commissioners of Inland Revenue. These powers ensured a great measure of fairness and uniformity of treatment between different taxpayers. For example, the cost of plant that is provided for war purposes and will be useless afterwards must be met by depreciation allow-

ances. It is a matter of great importance that these allowances should be adequate or manufacturers will be involved in heavy loss. At the time of the old excess profits duty the modern practice of conducting businesses through groups of companies was not so widely developed as it is now. There are a number of points in the proposals for excess profits tax dealing with principal and subsidiary companies which may involve hardship or are obscure. In particular it is felt that each company in a group of companies ought to be allowed to arrive at its standard independently of the rest. These standards then ought to be added for purposes of taxation to form a general standard for the whole group.

## Pharmaceutical Society's Examinations

THE results of the January examinations in London of the Pharmaceutical Society of Great Britain, published in the *C. & D.*, January 13, make disquieting reading. The total results in the Chemist and Druggist Qualifying examination amounted to 41.6 per cent., whilst those of the Preliminary Scientific totalled 39.2 per cent. Though these figures show an improvement on some of the past results, they cannot be regarded with anything approaching satisfaction. The Society has now had ample time to remedy the defects, since the introduction of the compulsory curriculum and the inspection of schools of pharmacy, most of which are subject not only to the inspection of the Society itself, but also to control by the Board of Examiners through local education committees, or the governing bodies of universities, yet the results of the examinations remain distressingly low. So low in fact are the results that the question is forced upon every member of the Society: What is wrong? In the Educational Number of the *C. & D.* (August 12, 1939) we propounded four questions which suggested some, though possibly not all, of the root causes of the difficulty: (1) Is pharmacy attracting the type of student who can stand up to the strain of a prolonged course of study? (2) Is there any fault with the teachers of pharmacy? (3) Is the manner of the examination faulty? (4) Is the syllabus laid down too heavy for the time allowed? We repeat these questions and urge that it must be regarded as a task to which the Council of the Society must give close and immediate attention. The prestige of pharmacy is lowered and the flow of apprentices into the profession is slowed because of the knowledge that after an expensive course of training, the chances of success in the examination are less than 50 per cent.

## Pharmaceutical Benevolence

IN THE CHEMIST AND DRUGGIST, January 13, p. 30, attention was called to the subscriptions by branches to the Pharmaceutical Society's Benevolent Fund. The list has now been revised as follows:—

Branch	No. of Members in Branch	Total Receipts	Average Amount per Member
		£ s. d.	s. d.
Cheltenham .. ..	69	53 5 0	15 5
Cornish .. ..	142	11 8 6	1 7
Gloucester .. ..	86	18 10 0	4 4
Liverpool .. ..	576	118 7 3	4 1

The Reigate Branch, with 113 members, contributed £45 6s.—an average of 8s. per member.

# Eye Lotions

ALTHOUGH eye lotions are believed to be one of pharmacy's most ancient forms of medication, it is only within comparatively recent years that the public has given serious consideration to the question of eye hygiene. The low cost and simplicity of making of eye lotions are factors which should appeal strongly to pharmacists who have time to pack their own range of products and much profitable business is to be had by those who can meet the growing demand for this type of preparation by introducing their own line. In this article consideration will be given only to that type of eye lotion which can be regarded as an application for general use, and not to lotions which are employed in the therapeutics of the eye, such as solutions of antiseptics, anaesthetics, mydriatics and myotics, the use of which calls for medical attention.

The class of lotion under review finds its application in a range of conditions of the normal eye, which are usually amenable to regular use of the lotion in a douche or eye bath. Thus, exposure to wind, fog, dust, sun-glare, strain due to prolonged reading, to driving or to occupational demands may be mentioned in this connexion, and the use of a soothing and cleansing lotion will often bring about an amelioration of the condition. Of the many medicaments used in eye lotions, the more popular are as follows: Sodium bicarbonate, borate and chloride, boric acid, ammonium chloride, zinc chloride and sulphate, glycerin and witch hazel extract, and the following formulas give an indication of the strengths usually employed.

### Simple

Boric acid .. ..	25	Sodium bicarbonate ..	4
Sodium borate .. ..	30	Sodium borate ..	4
Distilled witch hazel ..	50	Sodium chloride ..	4
Distilled water, to make 1,000		Distilled water, to make 1,000	

### Astringent

Boric acid .. ..	2 dr.	Ammonium chloride ..	2.5
Zinc sulphate .. ..	10 gr.	Zinc sulphate ..	5.0
Distilled witch hazel ..	2 oz.	Camphor .. ..	3.0
Glycerin .. ..	1/2 oz.	Alcohol .. ..	120.0
Distilled water to ..	20 oz.	Distilled water ..	800.0

A lotion which can be used with benefit by individuals whose eyes have been subjected to excessive exposure to light radiation, such as from carbon-arc lamps and welding, etc., is as follows:

Boric acid .. ..	.. ..	.. ..	10 gr.
Zinc sulphate .. ..	.. ..	.. ..	1/2 gr.
Adrenaline solution (1 in 1,000) ..	.. ..	.. ..	10 ml.
Distilled water to .. ..	.. ..	.. ..	1 oz.

It will be appreciated that all eye lotions must be turned out as sterile and free from foreign matter, and to achieve this end special precautions will be necessary. Complete sterility of the finished lotion is the ideal to be aimed at, and where possible the lotion should be sterilised by autoclaving. Where, however, medicaments are included which may not remain stable when subjected to such procedure, it will be necessary to resort to other methods to produce a reasonably sterile product. In these cases it is desirable to use recently-distilled water for the lotion. When the preparation of the lotion is complete, it must first be cooled to ordinary temperature, if heat has been employed to dissolve the solid medicaments, and then filtered, preferably through a bacteria-proof filter, such as Berkefeld or Seitz, or failing this through a fine-quality white filter paper. As regards the bottles used for packing the lotion, these should be of a good quality neutral glass to ensure the best results in storing the packed lotion, and of course they should be sterilised.

### Reaction and Tonicity

Two factors the importance of which in connexion with eye lotions has become recognised within recent years are the reaction and the tonicity of the solution. With regard to the reaction, or hydrogen-ion concentration of the lotion, some authorities affirm that when this lies outside the range of *pH* 7-8, irritation, burning or other unpleasant sensations are usually caused. These undesirable effects can be overcome as a rule by maintaining the reaction of the lotion approximately equivalent to that of the lachrymal secretion. Although the reaction of tears varies with different individuals, it is generally accepted that *pH* 7.4 represents the figure for the average person, and while certain drugs are believed to be more effective in an acid medium and others in an alkaline medium, in non-specific cases the *pH* of lachrymal secretion is considered the most advisable reaction.

This should be borne in mind when formulating the lotion, and probably the most practical way for the pharmacist to determine the reaction of the finished lotion would be the colorimetric method, using suitable indicators.

Turning to the question of tonicity, when solutions possess a tonicity differing from that of the lachrymal secretion, they cause irritation and smarting when instilled into the eye. Therefore, if the lotion is to be used without giving rise to any such discomfort, its osmotic pressure must be adjusted so that it has the same value as that of the lachrymal secretion, i.e., equivalent to a 1.4 per cent. solution of sodium chloride. A convenient method of making this adjustment is to add the required amount of a dissociating salt to the lotion and this may be calculated by referring to the following table.

Medicament	Concen- tration per cent.	Concen- tration gr. per oz.	Sodium chloride tonic equivalent of 1 gr.
Sodium chloride .. ..	1.4	6.356	1.0
Ammonium chloride .. ..	1.5362	6.974	0.9113
Alum (ammonium) .. ..	7.8103	35.459	0.1792
Borax .. ..	16.4424	74.648	0.0851
Boric acid .. ..	2.667	12.108	0.525
Chloroetone .. ..	7.6432	34.700	0.1831
Sodium bicarbonate .. ..	3.618	16.426	0.387
Tannic acid .. ..	13.8750	62.993	0.1009
Zinc sulphate .. ..	8.256	37.482	0.1696

(Mellen and Seltzer, "Journal of the American Pharmaceutical Association," 25, 1936, 759.)

The amount of sodium chloride per fluid ounce to be added to make the lotion isotonic with the lachrymal secretion can be ascertained by adding the sodium chloride tonic equivalents of the ingredients in 1 oz. of lotion (last column in table above) and subtracting the total from 6.356.

Concerning the packing of the lotion, a point to be remembered is the inadvisability of using corks in the bottles, owing to the risk of contamination of the lotion by cork dust or fragments. As an alternative, rubber stoppers or screw caps fitted with rubber washers should be used. The inclusion of a small eye cup in the carton or in the transparent wrapping is a factor which adds to the attraction of the packing and enables a reasonable price to be asked for the product.

### Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

D. M. (28/11).—The formulas for which you ask are as follows:

#### Castellani's Paint

Saturated alcoholic solution of basic fuchsin .. ..	.. ..	.. ..	10 c.c.
Aqueous carbolic acid solution (5 per cent.) .. ..	.. ..	.. ..	100 c.c.

#### Filter and add:

Boric acid .. ..	.. ..	.. ..	1 gm.
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#### After two hours add:

Acetone .. ..	.. ..	.. ..	5 c.c.
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#### After a further two hours add:

Resorcin .. ..	.. ..	.. ..	10 gm.
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#### Castellani's Foot Paste

Carbolic acid .. ..	.. ..	.. ..	1 gm.
Salicylic acid .. ..	.. ..	.. ..	5 gm.
Soft paraffin .. ..	.. ..	.. ..	100 gm.

M. O. (28/11).—DRY BATTERIES.—The following information summarises the process involved. The term "dry battery" is somewhat of a misnomer, as these batteries do contain a certain amount of moisture. There is a carbon rod (positive) in the centre, and the zinc container forms the negative pole. Between these electrodes is a mixture of which the following is a typical formula: Carbon or graphite 75 parts, black oxide of manganese 10 parts, zinc sulphate 5 parts, glycerin 2 parts, water sufficient to make a paste. The zinc container is usually lined with a plaster of Paris and sal ammoniac paste, or the electrolyte is enclosed in a sac. The cell is then sealed with a bitumen compound.

# Proprietary Articles Trade Association

## Council Meeting

A MEETING of the council of the Proprietary Articles Trade Association was held on January 10, the president (Mr. Lindsay Barclay) in the chair. On the motion of the president it was resolved that messages expressing the Council's sympathy to Messrs. Garcia, Pickard and Ratcliffe, who were prevented by illness from attending. The president also welcomed Mr. G. M. Roberts who would represent Thos. Christy & Co., Ltd., during the absence on active service of Mr. C. B. Christy.

### MR. A. RIDOUT

The president referred to the loss sustained by the Council and the Association through the death of Mr. Alfred Ridout (managing director, J. Grossmith & Son, Ltd.), and the following proposition was passed: "The Council of the P.A.T.A. desires to place on record its appreciation of the valuable services rendered to the Association by Mr. A. Ridout as a member of the Manufacturers' Section of Council, of the Executive Committee, and as President of the Association." The president then welcomed Mr. R. G. Dyas, who will represent Messrs. Grossmith in place of Mr. Ridout.

### WAR-TIME CONDITIONS

The council considered and approved the Executive Committee's report on matters dealt with since the Council's last meeting. The report stated that since the outbreak of war the Association's activities had been conducted from London headquarters almost uninterruptedly, and that alternative accommodation had been reserved against the possibility of later developments necessitating removal. The committee's recommendation, made on September 25, that no war-risk insurance surcharges should be made in relation to P.A.T.A. goods by any section of the trade still held good. A number of toilet proprietaries of foreign origin subject to import prohibition regulations were no longer obtainable and this had resulted in the withdrawal of a few such preparations from the protected list. Certain other products affected by market fluctuations had also been withdrawn. Conditions had caused revisions in prices of various proprietary articles. Costs of materials, containers, etc., had risen, and in some instances manufacturers had felt compelled to alter their retail and trade prices. The machinery of the P.A.T.A. had proved of value in ensuring that these revisions, where equitable and acceptable to retailers and wholesalers, were put into operation smoothly and simultaneously throughout the trade. The arrangement made for publication in the trade Press of all additions to and revisions in the P.A.T.A. list had ensured that the numerous revisions which occurred were brought promptly to the notice of the whole trade.

### PRICE-CUTTING POSITION

Price maintenance and investigation work was still proceeding. Conditions had induced a large number of traders, who in the past had been a source of trouble to the P.A.T.A., to conform to the protected prices; consequently there had been a noticeable decrease in cutting. A number of the more persistent cutters in the London area, however, had not changed their ways but had, if anything, exploited the position to their own advantage. During September, at a time when distribution difficulties made it almost impossible for manufacturers and wholesalers to cope with and dispatch orders received from the regular trade, price-cutters' agents were discovered to be particularly busy. In the names of well-known customers they had placed orders with many houses, and then called with cars to collect the goods. Although successful in a number of instances, the ruse was soon discovered and effective steps were taken to prevent its repetition. Price-cutters still operating were receiving the special attention of the Association's staff. It was reported that it had been possible to make arrangements for publication of the 1940 Year Book and Protected List. The Council dealt with a number of cases involving additions to or removals from the stop list and a number of applications affecting the protected list. Recommendations were received from the retail and wholesale sections regarding rates of profit; the resolutions were remitted to the Executive Committee for examination and report.

### ELECTION OF OFFICERS FOR 1940

The council proceeded to elect the officers for 1940. In accordance with custom the *President* for this year is nominated by the retail section, and Mr. H. H. Marshall was proposed by Mr. P. F.

Rowell. The motion was seconded by Mr. J. D. Bohn, supported by Mr. S. Watson, and carried with acclamation. Mr. Marshall then took the chair and thanked the Council for the honour conferred upon him. He said that during his year of office he would endeavour to do his best for all three branches of the trade, in accordance with the long-standing tradition of the Association. Mr. Marshall then moved that a vote of thanks be recorded to the retiring president. Mr. Barclay had given fine service to the Council and the Association during a difficult period of office and they all owed him a debt of gratitude. The motion was supported by Mr. W. W. Knott and Mr. F. J. Smith. Mr. Barclay expressed thanks. The council then elected as *Vice-Presidents* Messrs. J. D. Bohn (manufacturers' section), H. Nixon (wholesale), and W. S. Howells (retail); *Treasurer* Mr. A. T. Webb; and to the *Executive Committee* Messrs. N. E. Foster, G. M. Garcia, J. Godber, P. G. Hunt, T. Marns, P. F. Rowell, E. Skues, F. J. Smith. The president, immediate past-president, vice-presidents, treasurer and chairman of the P.A.T.A. Trust Co., Ltd. (Mr. C. H. Ratcliffe) are *ex-officio* members of the committee.

The Council received a letter from Mr. W. C. Birks, who had for many years represented Raines & Co., Ltd., York, on the wholesale section of the council, and who intimated that in existing circumstances he found it necessary for his company and himself to withdraw from membership of the Council. The Council expressed their regret at Mr. Birks' resignation and thanked him for his long services to the council and Association. May, Roberts & Co., Ltd., were co-opted to the vacancy on the Council occasioned by this resignation.

### OTHER MATTERS

After completing nearly forty years' service with the Association, Mr. McMillen retired on pension at the end of the year. The Council by resolution expressed appreciation of his long and valuable services to the Association.

It was agreed that the next meeting of the Council should be held in the second week of April.

### Protected List

**ADDITIONS.**—*Morning Pride brushless shaving cream* (distributors, Fassett & Johnson, Ltd.), new size, 6d., 4s. 3d. doz., 1 doz., 4s.; six doz. sixpenny or three doz. larger sizes, assorted if desired, less 5 per cent., carriage paid.—*Osborne, Garrett & Co., Ltd.*, Blondirol, 3s. 6d., 28s. doz.

**ALTERATIONS.**—*J. G. Ingram & Son, Ltd.*, Ingram's Omega breast reliever, 3s. 9d., 32s. doz.—*Meggeson & Co., Ltd.*, Meggeson's sore throat lozenges, 1s., 7s. doz.; 1s. 9d., 13s. doz.—*Newton, Chambers & Co., Ltd.*, Izal powder, tins, perforated-lid, small, 1s., 8s. doz.; household, 1s. 6d., 11s. 6d. doz., less 2½ per cent. cash in thirty days; carriage paid on £2 lots.—*T. & H. Smith, Ltd.*, Compound colloidal iron syrup, 1s., 8s. doz.; 1s. 9d., 14s. doz.; elixir compound of ephedrine, 1s. 9d., 14s. doz.; elixir Sibec, 1s. 9d., 14s. doz.; Glycodeine, 1s. 3d., 10s. doz.; 2s. 3d., 18s. doz.; Glyferro, 1s. 3d., 10s. doz.; 2s. 3d., 18s. doz.; guaiacol syrup, 1s. 3d., 10s. doz.; The People's cough balsam, 1s., 8s. doz.; 1s. 9d., 14s. doz.

**DELETIONS.**—*Grout & Co., Ltd.*, Norvelast finger bandage.—*Dorin Cosmetics*, Dorin rouge brunet.—*Culmuk*, Spartan shaving brush.

## C. & D. Retail Price List

WILL subscribers please note the following alterations in the quarterly list published on January 6:—

Cost d. per	Item	Selling Price				
		16 oz. s. d.	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.	
150	Ib.	Bismuthi carbonas ..	—	5 5	1 7	0 3
126	Ib.	Bismuthi subnitras ..	—	4 6	1 3	0 3
37.5	500	Saccharin 550 gr. 0'3	500	4 6	100	1 0
68	doz.	Absorbent gauze, sterilised, 3 yd. ..	each	0 10		

# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values. Notices of changed prices should continue to be sent to 28 Essex Street, London, W.C.2, until further notice. Late prices are given in the Coloured Supplement

## 28 Essex Street, W.C.2, January 17

BUSINESS in most markets continues well up to expectations. While a few products are quoted on somewhat easier terms, several further increases in values are recorded; the general tone is firm. The threat of a spread of the war into Belgium and Holland has had a disturbing effect on markets handling imported commodities. Business in the PHARMACEUTICAL CHEMICALS markets has been substantial, and makers' prices have been maintained without difficulty; further increases appear almost inevitable. This week crude IODINE has advanced ninepence per pound, and in consequence makers of IODIDES have withdrawn their scales of prices; the new rates, when available, will have to take into account this increase in raw material cost. A further rise in the price of MERCURY would occasion little surprise.

### Crude Drugs

The outstanding feature of this market is the general shortage of supplies. While small sales of Curaçao ALOES continue on spot, nothing is offered from the source for shipment, though one or two parcels have been quoted from New York. The shipment market for new-crop BUCIUS has not, as yet, attracted business. The position of Japanese CAMPHOR continues acute, and there are practically no bulk supplies available in London; a fair amount of spot business in synthetic powder is reported, but the shipment position shows no improvement. CLOVES are quoted easier on the week, and DESICCATED COCONUT shows a further decline. The limited supplies of DERRIS ROOT available here are held firm, and there are no shipment offers at present. The London market is bare of bulk supplies of any description of ERGOT, though one or two parcels of limited size are mentioned in the shipment market. HENBANE continues scarce and at high prices on spot. There has been a good deal more business in HONEY; the market is much steadier and tends rather dearer. There is plenty of inquiry for Matto Grosso IPECACUANHA, with the London market practically bare of supplies and shippers unable to offer at the moment. Some recently arrived RHUBARB has been sold at full prices. First-hand importers report that the cheaper grades of Tinnevelly SENNA leaves are dearer.

### Essential Oils

Trade in the essential oils markets has been rather on the quiet side this week, but, owing to the general low level of London stocks and the firm shipment conditions, prices are mostly well maintained. The Consortium has now advised its quotation for new-crop BERGAMOT, which is on the basis of f.o.b. Messina. Shipment prices for CASSIA are firmer. Spot values for Australian EUCALYPTUS continue firm and at high figures, and the shipment market is fully maintained. More business has been done in Bourbon GERANIUM, and prices are much steadier. Demand for French LAVENDER has slackened, and spot values tend easier, but London quotations for LAVANDIN continue firm. The latest cables on Sicilian new-crop LEMON indicate a firmer shipment market. MANDARIN is dearer for shipment and offers are limited; spot supplies are short. PALMAROSA shows a further advance, spot and forward. Famine prices are indicated for any genuine Singapore PATCHOULI available in London, while reports from the source continue to state there is nothing to offer. A steady business continues in PEPPERMINT, with the Chinese product selling freely at attractive figures. Spot values for PETITGRAIN continue to advance, but there is practically none in London; some shipment offers are noted. Bourbon VETIVERT is dearer forward, and the spot value is firm. Shippers indicate that a further increase in prices of WORMSEED is likely.

### Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Wednesday morning:—

Centre	Quoted	Par	January 10	January 17
Amsterdam ..	Fls. to £	12·107	7·55*	7·52*
Berlin ..	Mks. to £	20·46	—	—
Brussels ..	Belgas to £	nominal	23·97*	23·87*
Copenhagen ..	Kr. to £	18·159	20·8	20·8
Lisbon ..	Esc. to £	110	108	108
Madrid ..	Ptas to £	25·242	38·75	38·75
Milan ..	Lira to £	92·46	77·4	78·4
Montreal ..	Dols. to £	4·861	4·45*	4·45*
New York ..	Dols. to £	nominal	4·03*	4·03*
Oslo ..	Kr. to £	18·159	17·70*	17·70*
Paris ..	Fr. to £	124·21	176·8*	176·8*
Prague ..	Kr. to £	164·25	—	—
Stockholm ..	Kr. to £	18·150	16·90*	16·90*
Warsaw ..	Zloty to £	43·38	—	—
Zurich ..	Frs. to £	22·2115	17·90*	17·90*

\* Rate fixed by Bank of England.

Bank rate, 2 per cent.

### Pharmaceutical Chemicals, etc.

THERE are but few changes in values of importance to record this week. All recent advances are maintained and the general tone of the markets is firm.

ACETANILIDE.—Small trade, prices unchanged: B.P., leviss., quoted at from 2s. 3d. to 2s. 6d. per lb., as to quantity.

AMIDOPYRINE.—Quiet but firm: One cwt., 16s.; smaller quantities, up to 17s. per lb. for crystals, with powder 3d. per lb. extra.

BARBITONE.—Spot supplies limited, demand negligible: One cwt., 22s. 6d.; 28 lb., 23s. 6d.; smaller quantities, up to 27s. per lb., ex store.

BENZOIC ACID (B.P.).—Makers report that their prices are steady and range from 1s. 10d. per lb. for bulk quantities up to 2s. 3d. per lb. for small parcels.

BROMIDES.—Makers' scales of prices are firm. The scales are as follows: POTASSIUM (B.P.), not less than 5 cwt., 2s. 2d.; 1 cwt., 2s. 3d.; 28 lb., 2s. 9d. per lb. SODIUM (B.P.), not less than 5 cwt., 2s. 4d.; 1 cwt., 2s. 5d.; 28 lb., 3s. per lb. AMMONIUM (B.P.C.), not less than 5 cwt., 2s. 5d.; 1 cwt., 2s. 6d.; 28 lb., 3s. 1d. per lb. Net. Rise-and-fall and re-sale clauses apply. Without engagement. Special prices for larger quantities. 28-lb. parcels and 1-cwt. cases or kegs free.

CAFFEINE.—Importers continue to report they are receiving no offers from Dutch sources of supply. Limited quantities have been landed, but practically all are booked to go to consumers. Any spot supplies of PURE are valued at 18s. upwards per lb., ex store. British makers' prices are nominal, with all supplies required to fulfil orders.

CITRIC ACID (B.P. CRYSTALS).—British makers' home trade price to consumers is unchanged and nominal at 1s. 1d. per lb., less 5 per cent. discount. Little material is in dealers' hands, and prices vary as to holder from 1s. 7d. to 1s. 9d. per lb., ex store.

CREAM OF TARTAR.—The home trade price to consumers quoted by British makers is nominal and unchanged at 12s. per cwt., less 2½ per cent. discount. Any supplies in dealers' hands would be valued at not less than 150s. per cwt., ex store.

EPHEDRINE.—Most sources of supply report the demand for HYDROCHLORIDE, B.P., remains distinctly quiet, though fair quantities are being ordered ex contracts. The price for bulk quantities is steady at about 12s. per oz., with smaller parcels at from 12s. 6d. to 13s. 6d. Pure ALKALOID is at the usual premium.

HEXAMINE.—Rather more inquiry: Free-running crystals quoted at about 1s. 7d. for bulk quantities up to 1s. 10d. per lb., for small parcels; powder at cheaper prices.

IODIDES.—Crude iodine has been advanced 9d. per lb., and makers of iodides have withdrawn their prices.

LACTIC ACID (B.P.).—Fair trade, market steady. Quantities, in 1-cwt. carboys, 1s. 6d. to 1s. 7d.; in winchesters and bottles, 1s. 9d. to 2s. per lb., ex store.

PHENACETIN.—Makers' prices for ordinary quantities are firm at 3s. 6d. to 3s. 9d. per lb., and quotations are given without engagement. Little material is in dealers' hands, and prices are firm at 5s. upwards per lb.

PHENOLPHTHALEIN.—Makers' prices are firm: Less than 7 lb., 3s. 8d.; 7 lb., 3s. 7d.; 14 lb., 3s. 6d.; 28 lb., 3s. 5d.; one cwt., 3s. 4d. per lb.

PHENYLETHYLBARBITURIC ACID (B.P.).—There is an acute shortage of spot supplies, and any material available is firmly held for high figures; nominal at 35s. to 37s. 6d. per lb., in bottles.

PHOTOGRAPHIC CHEMICALS.—Makers' prices for the following products are firm as quoted: SODIUM HYPOSULPHITE, 5 cwt., 19s.; 1 cwt., 22s.; 56 lb. for 12s. 6d.; 28 lb. for 6s. 6d. SODIUM CARBONATE, RECRYST., 5 cwt., 13s. 9d.; 1 cwt., 17s.; 56 lb., for 12s. 6d.; 28 lb. for 6s. 6d. ALUM (PHOTOGRAPHIC QUALITY).—1 cwt., 23s.; 28 lb. for 6s. 6d. GLYGIN.—7 lb., 13s. 6d.; 1-lb. bottles, 14s. 6d. POTASSIUM FERRICYANIDE.—14 lb., 28. 9d.; 7 lb., 3s. 3d. per lb. Other prices are as follows: AMIDOL, 1 cwt., 8s. 6d.; 56 lb., 8s. 9d.; 28 lb., 9s. per lb., net; 14 lb., 9s. 9d.; 7 lb., 10s. 6d.; less than 3 lb., 12s. 6d. per lb., 2½ per cent. monthly account. Bulk parcels and tins free. 1-lb. bottles, 6d. extra. CHLORQUINOL.—1-lb. bottles, 21s. per lb. HYDROQUINONE.—1 cwt., 6s. 4d.; 56 lb., 6s. 7d.; 28 lb., 6s. 10d. per lb., net; 14 lb., 7s. 3d.; 7 lb., 7s. 6d., less than 7 lb., 8s. per lb., less 2½ per cent., monthly account. Retail quantities: 16 oz., 8s. 6d.; 8 oz., 4s. 6d.; 4 oz., 2s. 8d. Trade prices in bottles: 1-lb. bottles, 8s. 6d. each; 8-oz. bottles, 4s. 6d. each; 4-oz. bottles, 2s. 8d. each; 1-oz. bottles, 1s. 1d. each, with retail selling prices 50 per cent. additional. GOLD CHLORIDE.—15-grain tubes, 53s. per doz. MAGNESIUM POWDER.—11s. 9d. per lb. PARAMIDOPHENOL HYDROCHLORIDE.—9s. per lb., bottles free. POTASSIUM METABISULPHITE.—One cwt., 1s. 3d.; 28 lb., 1s. 6d.; 14 lb., 1s. 7d.; 7 lb., 1s. 9d.; 1 lb., 2s.; 16-oz. bottles, 2s. 6d.; 8-oz. bottles, 1s. 6d. each;

4-oz. bottles, 1s. each; 1-oz. bottles, 8d. each. PYROGALLIC ACID, CRYST.—1 cwt. and over, 9s.; 46 lb., 9s. 3d.; 28 lb., 9s. 6d.; 14 lb., 10s. 6d.; 7 lb., 11s.; less than 7 lb., 11s. 6d. per lb. Bulk tins free. 1-lb. tins, 4d. extra and 1-lb. bottles, 6d. extra. PYROGALLIC ACID, RESUB.—1 lb., 15s.; 8 oz., 8s. 3d.; 4 oz., 4s. 9d. each; 1 oz., 22s. per doz. oz. SODIUM SULPHIDE (PURE).—7 lb., 1s. 9d.; 1 lb., 2s. per lb., bottles free. SODIUM SULPHITE, RECRYST.—One cwt., 23s. 6d. per cwt.; 56 lb. for 13s. 3d.; 28 lb. for 7s. METOL.—1 cwt., 11s.; 56 lb., 11s. 3d.; 28 lb., 11s. 6d. per lb., net; 14 lb., 12s.; 7 lb., 12s. 9d.; 3 lb., 13s. 6d.; less than 3 lb., 14s. per lb., less 2½ per cent. monthly account; 2 lb. tins free; 16-oz. bottles 6d. each extra. Retail quantities: 16 oz., 14s. 6d.; 8 oz., 8s.; 4 oz., 4s. 3d., bottles free.

POTASSIUM PERMANGANATE.—Makers' prices continue steady: B.P. quality in 1-cwt. drums: 1 cwt., 1s. 3½d.; 3 cwt., 1s. 3d.; 5 cwt., 1s. 2½d.; 1 ton, 1s. 2½d. In 5-cwt. drums: 5 cwt., 1s. 2½d.; 1 ton, 1s. 2½d. Technical quality in 1-cwt. drums: 1 cwt., 14s. 3s.; 3 cwt., 13s. 6d.; 5 cwt., 13s. 6d.; 1 ton, 13s. 6d. Packing in 5-cwt. drums: 5 cwt., 13s. 6d.; 1 ton, 13s. Terms net, delivered, drums free. Dealers' prices are at higher figures.

QUININE SALTS.—Prices for these salts are firm: SULPHATE, 10s. 9d. Dutch florins; HYDROCHLORIDE, 13s. 25; BIHYDROCHLORIDE, 14s. 75; ETHYL CARBONATE, 134.50 per 100 oz., f.o.b. Holland. 100-oz. tins free; smaller packages extra. At these figures it is estimated that the cost in sterling of SULPHATE would be fully 3s. per oz., landed.

RESORCIN.—Makers' prices are firm, as follows: One cwt., 6s. 5d.; 56 lb., 6s. 6d.; 28 lb., 6s. 7d.; 14 lb., 6s. 9d.; 7 lb., 7s.; smaller quantities, up to 7s. 6d. per lb.

SACCHARIN.—The duty-paid Convention price for 550 material is firm at 98s. 4d. per lb. There has been a sharp increase in demand.

SALICYLIC ACID (B.P.).—Makers' scales of prices are as follows:—

In containers of	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
Under 4 lb. . . . .	s. d.	s. d.				
4 lb. and under 7 lb. . . . .	2 7½	2 6	—	—	—	—
7 lb. and under 14 lb. . . . .	2 6½	2 5	2 4½	—	—	—
14 lb. and under 28 lb. . . . .	2 5½	2 4	2 3½	2 3½	—	—
28 lb. and under 1 cwt. . . . .	2 4½	2 3	2 2½	2 2½	2 2	—
1 cwt. and under 5 cwt. . . . .	2 3½	2 2	2 1½	2 1½	2 1	2 0½
5 cwt. and under 1 ton . . . . .	1 11½	1 10	1 9½	1 9½	1 9*	1 8½
1 ton . . . . .	1 11	1 9½	1 9½	1 8½	1 8½*	1 8
		1 8½	1 8½	1 7½	1 7½*	1 7

\* 8 × 14 lb. and upwards, in one delivery, ½d. lb. less.

Prices include parcels or collapsible cartons; other packages charged extra. Sodium salicylate cannot be assorted with salicylic acid. Prices are quoted subject to an undertaking on part of buyers not to re-sell any quantities at prices or terms below scale for such quantities current at time re-sale is made.

SANTONIN.—Convention prices continue to be quoted unchanged. The scale is as follows: 15 kilo and over, £35 10s.; not less than 10 kilo, £36 5s.; not less than 5 kilo, £37; less than 5 kilo, £38 per kilo, delivered free in the U.K., 1-kilo tins free. Quotations for spot parcels are in the region of £37 to £38 per kilo.

SODIUM BARBITONE.—Dealers' prices are: One cwt., 23s. 6d.; 28 lb., 24s. 6d.; smaller quantities, 28s. per lb., ex store.

SODIUM BENZOATE (B.P.).—Demand continues on moderate lines; with makers' and dealers' prices steady at 1s. 8½d. for bulk quantities, up to 2s. per lb., for small parcels.

TANNIC ACID (B.P., LEVISS.).—Supplies short, values firm, business quiet. Any spot material available is quoted at from 6s. 9d. to 7s. per lb., as to quantity and seller.

TARTARIC ACID (B.P. CRYSTALS).—Makers advise their quotation, which continues nominal, is 1s. 5½d. per lb., less 5 per cent. discount. Supplies are limited and reserved for regular consumer customers. Dealers have practically nothing to offer; values are nominal.

VANILLIN.—Makers' prices are firm. The scale is as follows: Ex clove oil or guaiacol, five cwt., 14s.; one cwt., 14s. 1½d.; 56 lb., 14s. 3d.; less than 56 lb., 14s. 6d. per lb., carriage paid in the United Kingdom.

#### Crude Drugs, etc.

CONDITIONS in this market continue firm, with spot values of some products still tending to advance. Supplies of Curaçao aloes, derris root, ergot of all descriptions, henbane and Matto Grosso ipecacuanha are short.

AGAR.—Market is firm, while business is in fair volume. Spot, Kobe No. 1, 8s. 3d. to 8s. 4½d.; Kobe No. 2, now 7s. 10d.; Yokohama No. 1, 7s. 9d. per lb., ex store. Shippers are quoting as follows: Kobe No. 1, firmer at 6s. 3d.; Kobe No. 2, 6s.; Yokohama No. 1, 5s. 10d. per lb., c.i.f. Market re-sellers of Kobe No. 1, February–March, at 5s. 10d. to 6s. per lb., c.i.f.

ALOES.—Restricted sales of Curaçao are reported at 290s. to 300s. per cwt., ex store, with stocks now extremely small. No shipment offers are to hand from the source, but New York offers are noted at 260s. per cwt., c.i.f., with business reported done. Cape is steady on spot at 57s. 6d. to 60s. per cwt., ex store. Zanzibar, leaves, 80s. to 90s. per cwt., ex store.

ANTIMONY.—English regulus, £95. Continental regulus, £90 to £92 duty paid.

BUCHU.—New-crop rounds are quoted from the Cape at 3s. 1d. to 3s. 2d. per lb., c.i.f. So far business has been quiet and it is thought that a bid of 3s. c.i.f., would be accepted for a good bulk quantity. The spot market is also dull. Old-crop rounds, 3s. 3d. to 3s. 5d.; ovals, about 2s. 9d. per lb., ex store.

CAMPHOR.—Except possibly for limited quantities in second hands, there are no bulk stocks of Japanese material in London, and prices are nominal at the last figures published. A certain amount of business in synthetic powder is reported at 4s. 7d. to 4s. 8d. per lb.; most of this trade has been done by second hands. A cable from Japan states that all supplies for January have been sold. The monthly output for February and succeeding months is estimated at 900 cases of powder, 300 cases of slabs and possibly about 300 cases of tablets. These comparatively small supplies will, of course, fall far short of world requirements. The only shipment offer from the source is for tablets, February shipment, at 4s. 7d. to 4s. 10d. per lb., c.i.f. Slabs and powder are not offered, but on the tablets' figure the price would be about 4s. 7d. per lb., c.i.f. Flowers, one cwt., 4s. 7d.; 28 lb., 4s. 8d.; smaller quantities, 4s. 9d. per lb.; transparent tablets, 4-oz., 8-oz. and 16-oz., 4s. 7d.; 1-oz. and 2-oz., 4s. 11d.; ½-oz., ¾-oz. and ¼-oz., 5s. per lb.

CASCARA SAGRADA.—An improving demand is reported, with prices tending firmer. Spot, 1938 peel, 100s. paid, and 1939 peel, 97s. 6d. per cwt., ex store. Dutiable material is quoted for shipment at about 85s. per cwt., c.i.f., while an offer from Canada would work out at about 90s. per cwt., landed, duty free.

CLOVES.—Market has been quiet and is quoted easier: Zanzibar, spot, 1s. 0½d. per lb.; shipment, January–February, 9d., c.i.f. Madagascar, quotations nominal, 1s. 0½d. per lb., in bond; shipment, January–February, 9½d. per lb., c.i.f.

COCONUT (DESICCATED).—At the decline the market is steady, business quiet: Spot, fine, 34s.; medium, 35s.; afloat, 30s.; shipment, halves, January–February, 30s. per cwt., c.i.f.

COD LIVER OIL.—British-made medicinal quality oil is reported by the producers to be available, bulk quantities being at 8s. per gallon, in drums, delivered. Veterinary-grade oil is also available in drums, tins, and bottles. Norwegian: Lofoten steam-refined medicinal oil is quoted at from 10s. to 10s. 6d. per gallon, in tins, duty paid.

COLCHICUM ROOT.—Small trade, with dealers' prices steady at 75s. to 77s. 6d. per cwt., ex store.

COLOCYNTH PULP.—Market is now steady, the price asked for most lots being about 2s. per lb., ex store. There are no forward offers.

DERRIS ROOT.—Spot values are well maintained and supplies are limited. It is being found difficult to obtain reasonably priced freight rates for this bulky material, ships being filled with more attractive cargo; consequently there are no shipment offers. Spot, 18 per cent. ether extract, 7½d. to 8d. per lb. Root of 4 to 5 per cent. rotenone content, if available, about 1s. 3d. per lb., ex store.

ERGOT.—The London market is bare of supplies in bulk of any description, and values are nominal. Portuguese shippers have been indicating that 21s. 6d. per lb., c.i.f., might be accepted. A small parcel of Spanish, reported as just shipped, is valued at 24s. 6d. landed, and it is stated that a parcel of Hungarian, now afloat for this market, might be booked at 15s. 6d. per lb., landed.

GINGER.—Market is steady but rather quiet: West African, spot, 36s.; shipment, January, 32s. per cwt., c.i.f., nominal. Jamaican, spot, small medium, 55s. to 57s. 6d.; bold, in barrels, 90s. per cwt., ex store. Cochin, unwashed, about 52s. 6d. per cwt., ex store.

HENBANE.—Only a small quantity is offering here at 160s. to 170s. per cwt., ex store.

HENNA.—Prices are dearer for new-crop Egyptian leaves. Limited supplies are available in London: Green, 55s.; brown, 47s. 6d. per cwt., ex store.

HONEY.—More interest has been shown, and some first-hand sources in London have sold out. The tone is stronger. Jamaican, 80s. to 90s. per cwt., as to quality and quantity. Canadian, dearer from 77s. 6d. to 80s. per cwt., ex store.

IODINE.—Crude iodine has been advanced ninepence per lb., making the current price 15s. 9d. per kilo.

YPEACUANHA.—Orders have been cabled out to the source at 18s. per lb., c.i.f., for car-load lots of Matto Grosso, but the bids were not accepted, shippers stating they had nothing to offer at the moment. It seems that supplies so far to hand this season have all been booked, possibly at slightly less than 18s., c.i.f., but root should be coming in up to March. There may, in due course, be re-sellers of January–February shipment, but no price is as yet indicated. Any good to fair-test Matto Grosso root on spot would be worth fully 22s. per lb., ex store. A fair quantity of Minas is in London, priced at about 12s. 3d. to 12s. 6d. per lb.; shipment offers of this description are at about 10s. 3d. per lb., f.o.b. Brazilian port, for bulk quantities.

KAMALA.—Spot values firm, with supplies limited: 1s. 8d. to 1s. 9d. per lb., ex store.

MENTHOL.—Fair business is noted on the London market, with a good demand for supplies for re-export to Scandinavian countries. In bond, K/S brands, 18s. to 19s. per lb., as to holder. On spot the value

is virtually nominal at 21s. per lb., ex store, while there are no offers from the source; the last cable was 22s. per lb., c.i.f., with no business reported. Chinese material continues of interest, with spot steady at 15s. 6d. to 16s. per lb., ex store, duty paid. Shipment offers, January–February, 12s. 6d. to 13s. per lb., c.i.f.

**MERCURY.**—The shipment quotation for Spanish–Italian metal is reported to be unchanged at 150 dollars per bottle, f.o.b. Mediterranean port. No c.i.f. or "ex store, London" quotations.

**PEPPER.**—Market is about steady, business limited: Lampung, in bond, 4½d.; afloat, 3½d. per lb., c.i.f. Tellicherry, spot, 38s. 6d. Aleppo, January–February, 38s. 6d. per cwt., c.i.f. White Muntok, duty paid, 6½d.; in bond, 6d.; afloat, 4½d.; January–February, 4½d. per lb., c.i.f.

**PIMENTO.**—Market rather firmer: Spot, 1s. per lb.; shipment, January, 9os. per cwt., c.i.f.

**RHUBARB.**—A quiet trade is proceeding at full prices. Stocks in London are limited in both quantity and variety. Spot, Shensi, 6s. per lb., duty paid, for bold and medium-round. Rough-round is clearing well, with slightly wormy lots at 4s. per lb. and good quality up to 4s. 6d. per lb., ex store. Shipment offers of rough-round are restricted, and average 3s. 9d. per lb., c.i.f.

**RUBBER.**—Values are fractionally easier, business quiet but steady at the close. Standard ribbed smoked sheet, spot, 11½d.; February, 11½d.; March, 11½d.; April–June, 11½d.; July–September, 11½d. per lb.

**SEEDS.**—**ANISE.**—Spot, duty paid, Spanish, 11os.; Cyprus, 75s.; Bulgarian, 7os. **CANARY.**—Allocations were made last week, but no prices are quoted. **CARAWAY.**—Dutch, on spot, quoted at 85s., duty paid. **CORIANDER.**—Market firm. Morocco, on spot, offered at 28s. 6d., duty paid, and 26s. 6d., in bond. For January–February shipment, 22s. 6d., c.i.f., quoted. **CUMIN.**—Spot, Morocco, 85s., duty paid, ex store Liverpool; Cyprus, 75s., duty free. Malta has all been sold. For shipment, Malta and Cyprus are not quoted; Morocco, 78s., c.i.f., for prompt shipment. **DILL.**—Spot, Indian, 11 per cent., 37s. 6d. **FENNEL.**—Spot, Indian, 50s. and 55s. **FENUGREEK.**—Morocco, 20s., duty paid, ex store Liverpool. **MUSTARD.**—English, 52s. 6d. to 55s., according to quality. Small supplies only available.

**SENNA.**—Prices have advanced for the cheaper grades of Tinnevelly by about ½d. per lb., owing to shortage of supplies of good green leaves; as some months must elapse before the new crop becomes available, a firm tone is likely to prevail in the meantime. Spot quotations are as follows: Tinnevelly leaves: No. 1, 8½d.; No. 2, 5½d.; No. 3, 4½d. per lb. Tinnevelly pods: best pale hand-picked, 10d.; darker grades, 5½d.–6½d.; f.a.q., 4½d. per lb. Alexandrian pods: The market is poorly supplied with good green bold hand-picked, and prices are nominal. Manufacturing quality, 7d. per lb., ex wharf, London.

**SHELLAC.**—The London market continues steady, with fair business. Spot: standard TN orange, 9os. to 93s.; pure button, 132s. 6d.; fine orange, 140s. to 170s. per cwt. For arrival, TN orange, 87s. 6d., per cwt., c.i.f.

**STRAMONIUM LEAVES.**—New-crop shipment prices are much dearer at 65s. to 75s. per cwt., as to colour: spot values have advanced and are firm at 67s. 6d. to 70s. per cwt., tending still dearer.

**TRAGACANTH.**—Values are well maintained, and steady business is reported: Finest selected white ribbon, from £90; No. 1, white, £77 10s. to £80; No. 2, white, £65 to £70; No. 3, white, £55 to £57 10s.; pale leaf, £35; amber leaf, £25; red leaf, from £16 10s.; woody and hoggy, from £16 10s. All prices are per cwt., ex store, London.

**TURMERIC.**—Spot, Madras finger, 52s. 6d. paid. Rajapore, quoted at 53s. per cwt., ex store. Shipment, January–February, Madras finger, 42s.; Rajapore, 43s. per cwt., c.i.f.

**WAXES.**—**BEES'.**—Values are fully steady and spot supplies continue severely restricted. Spot supplies remain small. Spot, from 185s. upwards; in bond, 170s.; shipment, Dar-es-Salaam, 177s. 6d. per cwt., c.i.f. Japanese, first three brands, now landing, 127s. 6d. per cwt., ex wharf. **CARNAUBA.**—Market is steady as quoted, limited inquiry: Fatty grey, 340s. and in small supply; chalky grey, 330s. per cwt., ex store. Shipment: January, fatty grey, 290s., c.i.f.; Primiera, shipment, February–March, 395s. per cwt., c.i.f.

### Essential and Expressed Oils, etc.

BUSINESS has been poor but values, on average, are maintained. The Consortium price for new-crop bergamot has been advised.

**ANISE (STAR).**—Business is still slow on spot but there has been no further decline in values; shippers quotations are maintained. Spot, tins in cases, 4s. 6d.; drums, 4s. 3d. per lb., ex store; shipment, January–February, tins in cases, 3s. 8d.; drums, 3s. 6½d. per lb., c.i.f.

**BAY.**—Usual small-parcel trade, with dealers' prices steady at 5s. 3d. to 6s. per lb., as to quantity, ex store.

**BERGAMOT.**—The shipment price for new-crop Consortium oil is now available, and works out at 20s. per lb., f.o.b. Messina. This is equivalent to fully 21s. per lb., c.i.f., in tins in cases. Copper packages are not available. The spot value of genuine oil is steady at 22s. to 23s. per lb., ex store.

**BOIS DE ROSE.**—Fully steady as quoted, but business quiet. Spot, from 8s. to 8s. 6d. per lb., ex store; shipment offers at about 7s. 6d. per lb., c.i.f., for distant positions.

**CARAWAY.**—Prices are fully maintained, with inquiry limited; the spot price for Dutch rectified oil continues firm at 15s. per lb., landed and duty paid; shipment at 14s. 6d. per lb., duty paid.

**CASSIA.**—Any good oil on spot is held for 4s. 9d. to 5s. per lb., ex store. Shipment: an offer of cases at 4s. 9d. c.i.f. is reported, while a bid at 4s. 6d. c.i.f. for drums is stated to have been rejected by the source.

**CITRONELLA.**—Not much doing in this article at the moment, but there is a stronger undertone on a report that a large order may soon be placed in the market: Ceylon, spot, drums, 2s. 6d. to 2s. 7d.; smaller quantities up to 3s. per lb.; shipment, drums, about 2s. 1d. per lb., c.i.f. Java, spot, drums, 3s.; smaller quantities, up to 3s. 7½d. per lb.; shipment again easier at about 2s. per lb., c.i.f.

**EUCALYPTUS.**—Inquiry continues on spot, but supplies are extremely limited and prices are firm at 4s. 6d. (paid) up to 5s. 3d. as to holder, for 70 to 75 per cent. oil. Shippers are quoting February–March only, and then in restricted quantities; their prices are firm at 2s. 10d. per lb., c.i.f.

**GERANIUM.**—Rather more inquiry on spot; values tend dearer; there are still no shipment offers of Bourbon. Spot oil of good quality would be close up to 15s. per lb., ex store. Algerian, spot, about 15s. to 15s. 6d. per lb., ex store.

**LAVENDER.**—Consumers appear to have placed most of their orders earlier and business has been negligible, with French 38 to 40 per cent. oil possibly easier at 18s. to 19s. 6d. per lb., as to quality and quantity. **AVANDIN** continues firm at 10s. 6d. to 11s. per lb., ex store.

**LEMON.**—The shipment market, according to reports from the source, is firmer and the average quotation for branded standard quality B.P. oil is now 13s. 6d. to 13s. 7½d. per lb., c.i.f. Some shippers are asking higher prices. The spot market is dull, with genuine oil at about 17s. per lb., ex store, and blended oils at less. Californian oil, cold-pressed, quoted in sterling at 13s. 6d., at wharf; distilled, regular quality, 7s. 1d. per lb., at wharf, with the demand rather quieter.

**LEMONGRASS.**—Market has been dull and values are rather easier. Spot, from 4s. 6d. to 4s. 9d. as to quantity, ex store; shipment quotations are at about 4s. 1½d. to 4s. 2d. per lb., c.i.f.

**LINSEED.**—The controlled price for large bulk quantities of crude, naked ex works, is unchanged at the advance recorded last week—to £40 10s. per ton. Distributors' prices for ordinary quantities of crude or boiled, packed and carriage paid, would be at higher figures.

**MANDARIN.**—Little good oil on spot, and dealers' prices firm at 24s. to 25s. per lb. Shipment offers of this season's oil are averaging about 22s. 3d. per lb., c.i.f.

**NUTMEG.**—Spot quotations are unchanged; not much business moving: American, 11s. 4½d. to 11s. 10½d., as to quantity; shipment, 9s. 10d. per lb., c.i.f. Dutch, spot, 11s. 9d. to 12s. 6d. per lb., as to quantity, ex store.

**OLIVE.**—The Ministry of Food controlled price paid by importers for large bulk quantities in 50-gallon drums is unchanged. Distributors' prices for a few gallons, packed in gallon tins, carriage paid, would now range from 11s. 9d. to 12s. 6d. per gallon.

**ORANGE.**—The few shipment quotations for French Guinea oil vary according to position, with prompt at about 3s. 6d. and April shipment at about 3s. 2d. per lb., c.i.f. There does not appear to have been much business moving. The spot values of this oil are unchanged, with drums about 5s. 6d., and re-packed in tins up to 6s. per lb., ex store. Californian oil is quoted in sterling at 3s. 10½d. per lb., in small drums, ex store, duty paid, limited supplies only available.

**PALMAROSA.**—At the further advance the market is firm; spot supplies are limited. Spot, 12s. to 12s. 6d. per lb., ex store; shipment, 10s. 6d. per lb., c.i.f.

**PATCHOULI.**—If there is any bulk supply of genuine Singapore oil available on spot the idea of its value is up to 30s. per lb., ex store. The source continues to report nothing to offer on account of lack of raw material. Seychelles firm at 21s. 6d. to 22s. per lb., ex store.

**PEPPERMINT.**—Good business is recorded, with buyers of Japanese oil on spot at 7s. per lb., ex store, but there are only small offerings. Japanese shippers continue to cable 8s. per lb., c.i.f., and at this figure no interest is shown. There are re-sellers of oil afloat at 7s. 3d. c.i.f. Chinese has sold freely on spot at 5s. 3d. to 5s. 6d. per lb., with oil afloat at 4s. 9d. per lb., c.i.f. Shippers offer February–March at 4s. 6d. per lb., c.i.f. American natural oil is steady but quiet, and is quoted at from 2 dollars 90 cents to 3 dollars 5 cents per lb., c.i.f., in tins in cases. Spot, 16s. to 16s. 3d. per lb., ex store.

**PETITGRAIN.**—Any odd lots are now quoted at up to 9s. per lb., ex store. Shipment offers, in drums only, 7s. 3d. to 7s. 4½d. per lb., c.i.f., February–March dispatch.

**SPEARMINT.**—Conditions tend firmer, according to reports from the source. Spot, U.S.P., 13s. 3d.; shipment, 11s. 9d. per lb., c.i.f.

**TURPENTINE (AMERICAN).**—Market is not controlled. London 59s. 6d. per cwt., tax paid, in barrels, ex wharf; Liverpool, 62s. 6d. in barrels, ex store.

**VETIVERT.**—Shipment offers at up to 22s. 6d. per lb., c.i.f., reported Spot values are now close up to 25s. per lb., ex store, for Bourbon.

**WORMSEED.**—Although there has so far been no further advance in shipper's prices, they advise another move is likely. Spot, good brands, up to 18s. 3d., shipment quotations firm at 17s. 6d. to 17s. 9d. per lb., c.i.f.

# World Mineral Industries

THE Imperial Institute recently published a statistical summary of production, imports and exports of the mineral industries of the British Empire and foreign countries during the years 1936-38 (H.M. Stationery Office, price 7s. 6d.). Details of production are given not only in the well-known world sources, but also in countries in which production has not been long established and whose outputs are as yet of comparatively small importance. The tables of imports and exports of these natural products are given in detail and those of concern to the drug trade will be reproduced in this and forthcoming issues of the *C. & D.* The series will include arsenic, barium, bismuth, cadmium, cobalt, fuller's earth, magnesite, manganese, mercury, mica, platinum, potash minerals, radium, strontium minerals, sulphur, talc, etc. While Empire output of a number of these mined products is still of secondary importance, it is noteworthy that the volume in certain instances tends to increase, and it is evident that during the past few years a good deal of attention has been paid to developing production at these sources.

## No. I—Antimony

Producing Country	1936	1937	1938
Long tons			
BRITISH EMPIRE			
Southern Rhodesia .. ..	84	78	77
Union of South Africa .. ..	17	—	12
Canada .. ..	—	—	11
Burma (estimated) .. ..	100	30	90
India .. ..	—	(c)	13
Sarawak .. ..	30	5	—
Australia .. ..	150	567	(a)
FOREIGN COUNTRIES			
Austria .. ..	123	248	(a)
Czecho-Slovakia .. ..	1,020	1,226	(a)
Greece .. ..	196	—	(a)
Italy .. ..	485	600	910
Jugo-Slavia .. ..	1,600	1,780	3,370
Portugal .. ..	23	61	161
Algeria .. ..	1,375	958	1,010
Morocco (French) .. ..	35	26	155
(Spanish) .. ..	15	206	80
Mexico .. ..	7,188	10,471	7,997
United States (b) .. ..	674	1,130	580
Argentina .. ..	—	10	(a)
Bolivia (exports) .. ..	6,421	7,014	9,287
Honduras .. ..	1	(a)	(a)
Peru .. ..	1,224	1,396	662
China .. ..	17,000	15,000	8,000
French Indo-China .. ..	46	6	102
Japan (estimated) .. ..	150	(a)	(a)
Korea .. ..	17	10	(a)
Turkey .. ..	562	659	490

(a) Information not available. (b) Secondary metal was recovered as follows:—1936, 8,800 long tons; 1937, 11,018 long tons; 1938, 7,590 long tons. (c) included with 1938.

## Poland's Chemicals

THE occupation of Poland by Germany and Russia brought by far the largest part of the chemical industry of Poland under German control. The former German territories of Eastern Silesia, with Katowice and Danzig, have been specifically re-united with the Reich, and the entire Silesian coalfields and area thus become an economic entity. The "German zone of interest" includes the larger portion of the new industrial centre of Poland, located between the tributary Pilica, the river Bug, the Beskid mountains and the river Vistula. About two years ago the chemical centre was developed in the Sandomierz district, according to a report issued by the U.S.A. Department of Commerce, and products of military importance were there turned out, such as explosives, ammunition and nitrogen compounds. When the Olsztyn district was united with Poland in the autumn of 1938, another fifteen establishments, employing about 1,000 workers and including the Oderberger Chemische Werke, the Count Larisch works and five coke plants, with an annual production of 13,000 tons of ammonium sulphate, were added to the Polish chemical industry. At the end of 1937 there were

992 chemical factories in Poland employing approximately 63,000 workers. The share of foreign capital in the Polish chemical industry is large. At the beginning of 1938 over 40 per cent. of the share capital of some \$45,000,000 of Polish joint-stock chemical companies was in foreign hands. According to local sources of information the total value of production of chemicals and allied products for the whole of Poland in 1937 was \$87,000,000. The largest Polish chemical enterprise was the Government-owned United Explosive and Nitrogen Works, followed by the Polish Solvay Works, Ltd., which had its own coal-pits, rock-salt mines, and two ammonia works, and was the main producer of soda ash and caustic soda. The United Nitrogen Works was the largest producer of calcium carbide and cyanamide. About one-fourth of the production of sulphuric acid was accounted for by the Gieseke A.G., and Silesian Mining and Zinc Smelting, Ltd. A large portion of the nitrogen is in ammonia and nitric acid derived therefrom; the value of these two products in 1937 was \$13,000,000. It is difficult to gauge the relation between domestic production and foreign trade, as Polish foreign trade figures included Danzig, but it is believed that about 90 per cent. of Poland's requirements for chemicals were covered by domestic production. The chemical foreign trade of the former Polish-Danzig customs union was valued at \$16,200,000, of which \$14,221,000 represented imports. Imports into the former Polish-Danzig customs union were mainly from Europe, with overseas imports consisting almost exclusively of United States merchandise. Germany was by far the most important supplier, having supplied about \$5,000,000 worth in 1938; the United States shipped about \$500,000 worth of goods.

## Commercial Notes

**Danish Poppy Cultivation Experiments.**—To provide domestic sources of opium, medicine manufacturers in Denmark are intensifying experiments on the cultivation of poppy. Experimental plantations on the island of Langeland are to be expanded, and possibilities of cultivating the plant on the island of North Zealand are being investigated.

**Mexican Lime Oil Industry.**—Production of lime oil in the Guadalajara district of Mexico has become a leading part of the lime industry. In former years, the bulk of the crop was shipped to the United States in the fresh state, but in the past two years exports of limes have declined almost to vanishing point, while exports of lime oil, both distilled and cold-pressed, have increased. During the first nine months of the current year exports of lime oil from the Guadalajara district to the United States aggregated 19,609 lb., valued at \$34,244, compared with 23,936 lb., valued at \$44,113, in the corresponding months of 1938.

**U.S.A. Glycerin Industry.**—Production, imports and exports of glycerin in the United States of America during the first nine months of 1938 and 1939 were as follows:—

	Nine months 1938		Nine months 1939	
Imports	lb.	\$	lb.	\$
crude .. ..	8,656,355	726,631	8,888,187	575,861
refined .. ..	2,386,300	200,048	318,878	27,497
Exports .. ..	3,218,075	362,738	3,230,461	358,748
	Production	lb.	Stocks on hand	lb.
	9 mths. 1938	9 mths. 1939	9/30/38	9/30/39
Crude, 80 per cent. basis	121,667,399	128,645,264	13,248,750	18,187,201
Dynamite grade .. ..	32,154,091	39,469,580	23,178,898	20,240,423
Chemically pure .. ..	68,742,469	67,038,914	44,279,806	45,965,490

**Curaçao Aloes Crop.**—The output of aloes in the Netherlands Indies was somewhat short during the current year, owing to drought and the difficulty of obtaining labour. Early estimates placed the output at around 3,200 cases of 125 lb. each, which compares with an average of around 3,400 cases per annum. The actual output of the 1939 crop is now estimated at around 2,800 cases, all of which was harvested during the second quarter of the year.

**Japanese Pyrethrum Prices Fixed.**—The Japanese "Official Gazette," October 9, 1939, contains a notice of the Ministry of Agriculture and Forestry establishing standard selling prices for dried pyrethrum flowers. The official prices include the same standard quotations for producers and producers' associations as for dealers. Although stocks of pyrethrum on hand in Japan are considerably higher than normal, there appears to be little prospect of a reduction in the primary market in the near future. Present indications are that the 1940 crop will surpass that of 1939 by approximately 25 per cent. if normal growing conditions should obtain. Should current high prices cause a sharp reduction in exports, farmers may utilise their land for the cultivation of other crops.

# Diseases and their Treatment

## VI—Diseases of the Blood

NORMAL blood consists of red blood corpuscles or erythrocytes, white blood corpuscles or leucocytes, blood platelets or thrombocytes and haemoglobin or colouring matter. The colour index is the amount of haemoglobin contained within each corpuscle. The coagulation time is the interval which elapses between the time the blood is withdrawn and the time that it forms a clot. The normal time varies between six and twelve minutes.

**Pernicious Anæmia.**—In persons suffering from pernicious anæmia there is great diminution in the number of red blood corpuscles. The haemoglobin is also diminished but not in proportion to the diminution in the red cells. Various abnormal forms of red cells are present. A special form of cell known as the *reticulocyte* makes its appearance, and these cells are the earliest indication that the patient is reacting favourably to the treatment. The symptoms presented by the patient are weakness, shortness of breath and palpitation, which, however, are common in all forms of anæmia. There are also gastro-intestinal symptoms, such as indigestion and soreness of the tongue. There is marked pallor with very often a lemon-tinted skin. The pulse tends to be rapid and murmurs are heard over the heart. The disease is most common after the age of forty. It is now supposed to be due to the want of a substance secreted from the lower end of the stomach. This secretion is checked by some unknown condition. The lacking substance is normally absorbed from the small intestine and is stored in the liver especially. It is, therefore, found present in the livers of animals. Treatment consists in giving liver in the form of an extract by intramuscular injection. At first 2 to 5 c.c. are given every three days. Later the effects are kept up by giving 4 to 6 c.c. every three weeks. Desiccated hog's stomach is also administered, but is not as a rule quite so efficient. Iron, arsenic and other remedies have no place in the treatment of pernicious anæmia nowadays. If liver extract cannot be given by injection, the oral administration is often highly beneficial.

**Secondary Anæmia.**—In this case the anæmia is the result of acute rheumatism, malaria, chronic kidney disease, haemorrhage or some other preceding malady. The blood picture shows a diminution both in number of the red cells and in the haemoglobin. The symptoms are those of anæmia in general—weakness, faintness, headache, indigestion, palpitation and shortness of breath. Iron is the most efficacious remedy here. It is sometimes combined with arsenious acid in a pill. Ferrous salts (e.g. Bland's pill) are probably the most efficacious form of iron. Ferrous sulphate is equally good, however. The scale preparations are sometimes preferred, while for children the saccharated carbonate is a very suitable preparation. A small amount of copper aids the action of iron and is now usually prescribed along with it. There is no benefit to be derived from prescribing liver extracts in such cases.

**Aplastic Anæmia.**—This rare form is met with in cases of benzene poisoning, T.N.T. poisoning, and (it is also stated) after exposure to radium. In such cases there is destruction of the bone marrow from which certain elements of normal blood are derived. There is marked diminution in the number of white blood corpuscles and of the blood platelets. The red blood corpuscles also become rapidly diminished in number. It is a fatal disease. The onset is insidious with symptoms of anæmia. Haemorrhages are common. In cases of benzene poisoning the writer's experience has been that haemorrhages from the gums are a fairly early sign, but they may take place from any mucous membrane. The only available treatment is the transfusion of blood which has to be frequently repeated.

**Sickle-cell Anæmia.**—This is only referred to for the sake of completeness as it is only met with in the negro race. The red cells and haemoglobin are reduced. No treatment seems to be available.

**Anæmia of Pregnancy.**—This is met with in a variety of forms. Sometimes it assumes a severe form. It often comes on insidiously but may develop quite suddenly. It may occur either before or after the birth of the child. It is probably commoner in the case of first pregnancies, and is sometimes found to occur with every pregnancy. One form resembles closely pernicious anæmia. There is extreme pallor which may come on quite rapidly. Shortness of breath as well as vomiting and diarrhoea are common. Haemorrhages are also frequently met

with and swelling of the ankles is a usual concomitant. Another type is more liable to develop after the pregnancy is terminated. In the severer types of case blood transfusion becomes necessary. Liver extract and iron are also beneficial in certain cases.

**Leukæmia.**—This is a disease affecting the blood-forming tissues. It is characterised by changes in the number and type of leucocytes present in the blood. To understand the different forms of leukæmia it is necessary to bear in mind that there are three principal blood-forming systems. These are the myeloid tissue (i.e. the bone marrow), the lymphoid tissue (i.e. lymphatic glands) and what is now known as the reticulo-endothelial tissue.

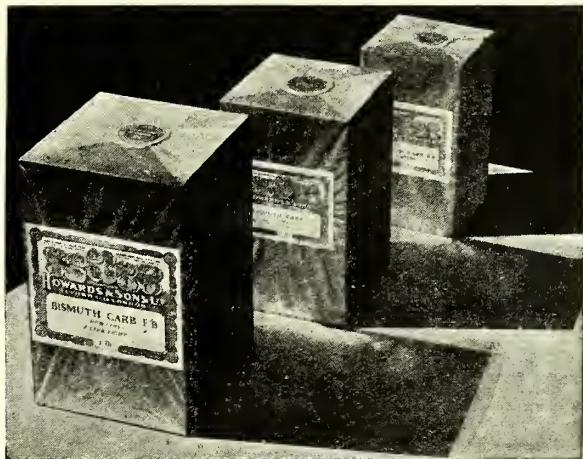
**Myeloid Leukæmia.**—This may be either an acute or chronic disease. On examination of the blood of such patients there is found to be a great increase in the number of leucocytes. The red cells and haemoglobin are diminished. This disease is commoner in males than in females. It is most frequently met with between the ages of twenty-five to forty-five years. The spleen often reaches an enormous size. The liver also tends to become enlarged. The patient's attention is often directed to the fact that his abdominal girth is steadily increasing. This is due to enlargement of the spleen. Pain over the left side is complained of as the result of inflammation of the capsule of that organ. There is more or less breathlessness, and as the disease progresses the ordinary symptoms of anæmia steadily develop. Swelling of the ankles is common. Towards the end haemorrhages, more especially from the gums and nose, are met with as well as vomiting and diarrhoea. There is generally an irregular type of fever. Wasting is sometimes a marked feature of the disease. This is a fatal disease. As regards treatment ordinary methods such as iron, arsenic and other drugs are seldom satisfactory. Anything which will reduce the enlargement of the spleen may do good. Hence x-rays are employed. The spleen and long bones are treated. Under such treatment the organ tends to shrink, but is apt to enlarge when applications are stopped. Recently 5-minim capsules of benzol have been tried. It has been found that removal of the spleen by operation is not to be recommended.

**Lymphoid or Lymphatic Leukæmia.**—This variety is much less common than the first-mentioned type. It is very rarely met with in the female. It is likewise a fatal condition. The blood shows diminution in the number of the red blood cells and of the haemoglobin. The leucocytes are greatly increased in number. The disease comes on very slowly and insidiously with enlargement of glands throughout the body, more especially those in the neck. These may form considerable masses. There are also the usual symptoms of anæmia together with pains in the long bones and probably itching of the skin. Later on haemorrhages may make their appearance as well as a certain amount of wasting. The disease, although fatal in the long run, is apt to be a chronic one and the patient may live for a number of years after its onset in some instances. The only hopeful form of treatment is the x-rays applied to the masses of enlarged glands, but never to the spleen in such cases.

**Chloroniae.**—Although this rare disease is often looked upon as a form of tumour formation, it is now, perhaps, more correctly regarded as a form of acute myeloid leukæmia. It is met with in children and appears in the form of swellings or tumours in the region of the face and behind the ears. These tumours have a greenish colour. The blood picture is that of myeloid leukæmia. The spleen and also the lymphatic glands become enlarged to a greater or less extent. There are also wasting, anæmic symptoms and haemorrhages. There is no satisfactory method of treatment.

**Agranulocytosis.**—This has become common as the result of the use of sulphonamide preparations. It may also be caused by amidopyrin and gold salts. It is characterised by great reduction in the number of leucocytes. It is most common in women. Ulceration of the mouth, rise of temperature, rigors and extreme prostration are the chief features of this condition. Haemorrhages are sometimes met with. In the milder types recovery may take place. Unfortunately the severer types are more commonly encountered and these cases terminate fatally as a rule. Treatment consists in administering pentnucleotide intramuscularly in daily doses up to 50 c.c. Cases have recently been recorded in which the treatment was almost immediately beneficial.

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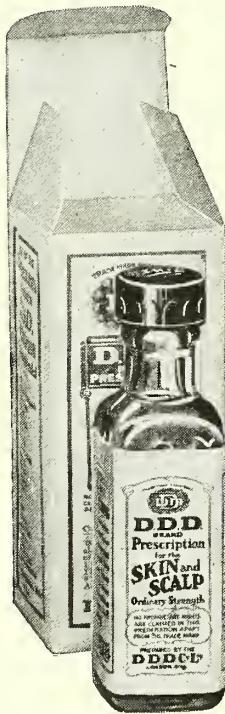
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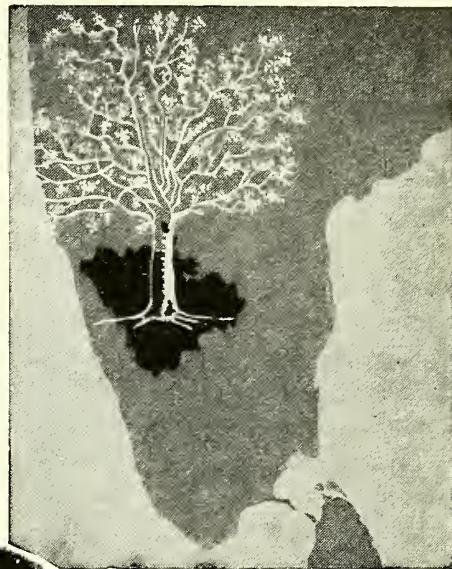
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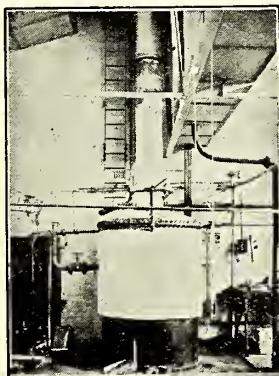
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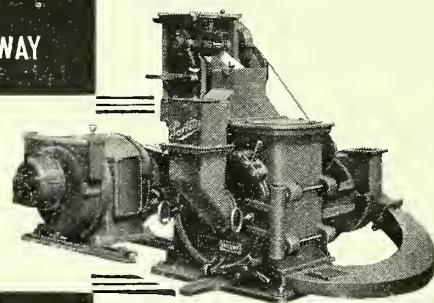
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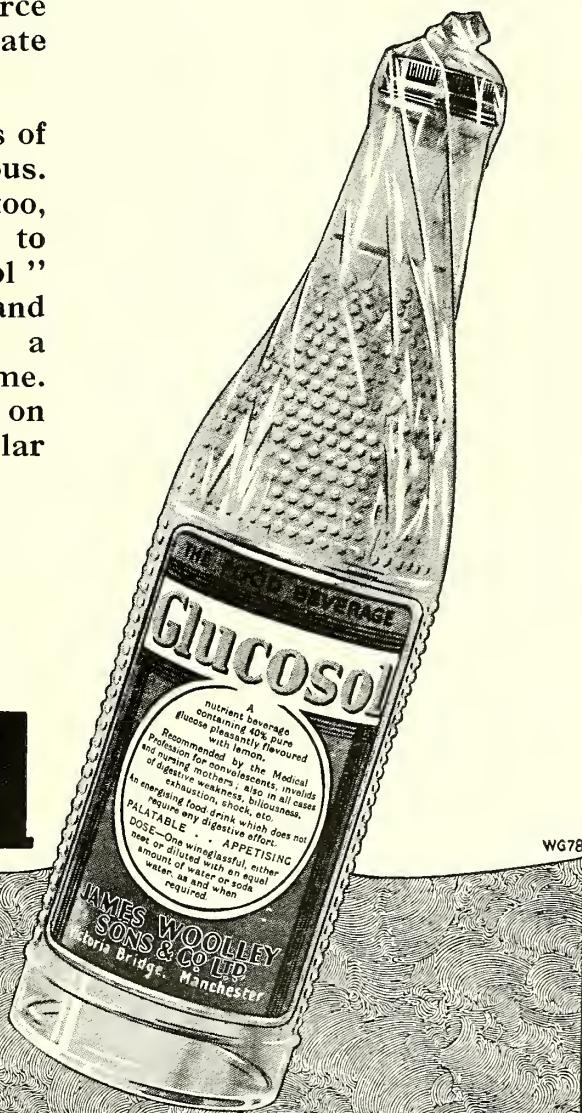
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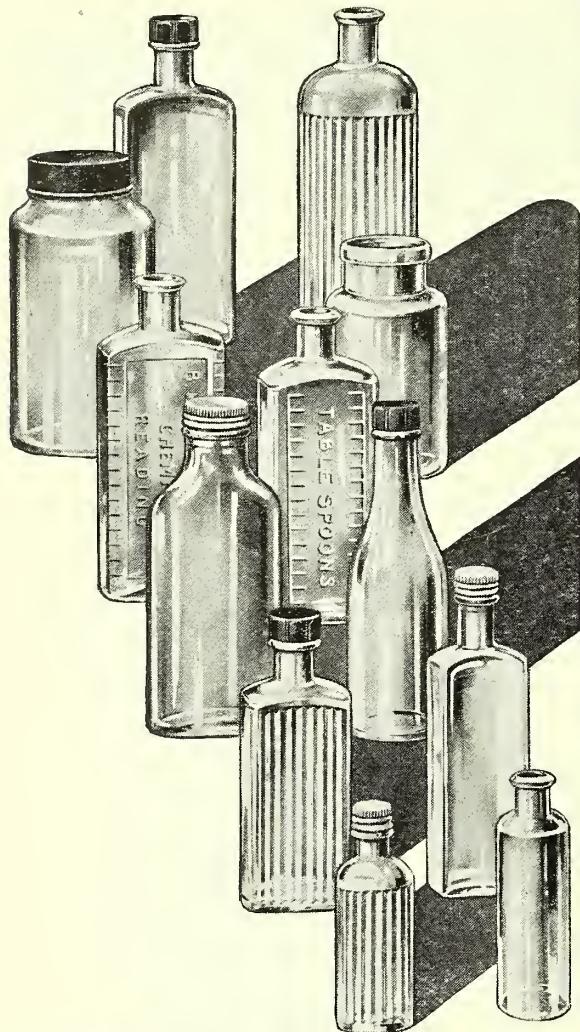
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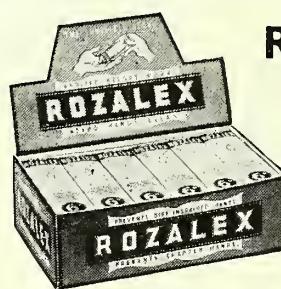
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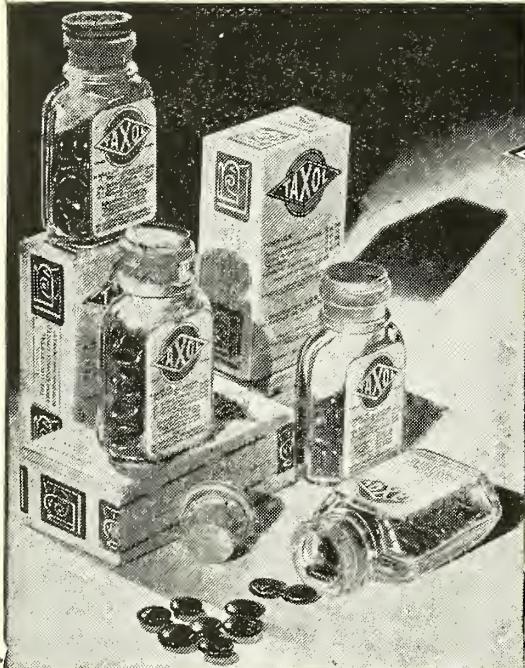
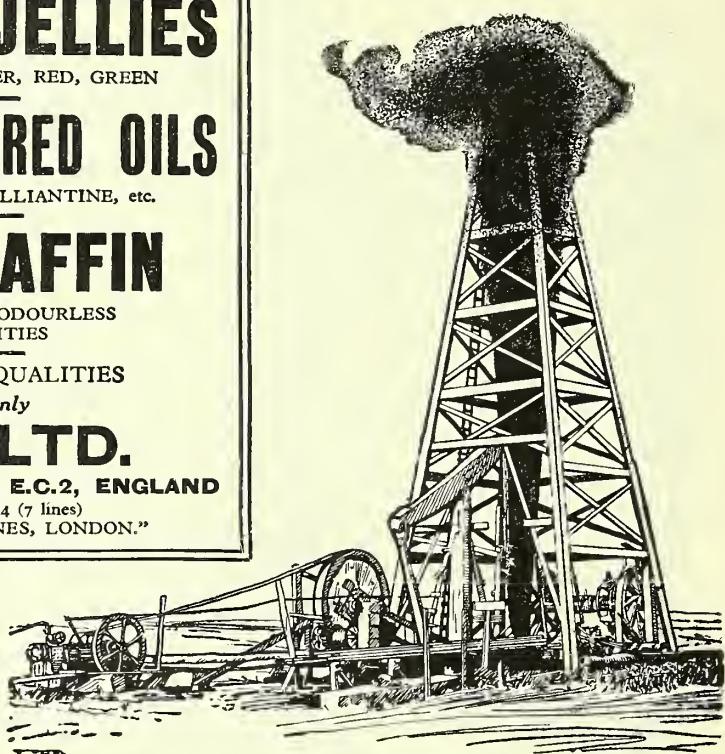
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28 ESSEX STREET, LONDON, W.C.2

JAN. 20  
1940

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**COMPANION** Help to assist Lady Chemist in house and shop. Good home. State age, experience if any, references, and snap if possible, to Miss Graves, Chemist, 137 Woodlands Road, Ilford, Essex.

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**WANTED**, a Qualified Chemist, honest and trustworthy, capable dispenser, good window-dresser; write stating age, experience, salary required, giving references, and when able to commence duties, or call, 77 High Street, Camden Town, London, N.W.1.

**WANTED** immediately Qualified Young Lady Assistant for small good class country Pharmacy. Dispensing and occasional counter work; no Sunday duty. Apply by letter stating salary required and photo to 180/12, Office of this Paper.

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**C**OSENOMIC and Perfumery Manufacture. Thoroughly experienced and practical Compounder and Formulator (26) seeks situation. Exempt military service. Experienced in Costs, Control, Buying, etc. 179/1, Office of this paper.

**M**ANUFACTURERS' Agent desires additional agencies on commission for Scotland; wide connexion; car owner. 180/23, Office of this Paper.

**M**EICAL Propaganda: Lady (29), 10 years' experience—six, managerial, organisation, staff control, seeks situation, ethical manufacturers only. Capable; excellent references. 360/202, Office of this Paper.

**M.P.S.** F.B.O.A. (32) good appearance, keen, conscientious, with first class experience in business building; excellent propagandist, desires position in/around London, as representative; preferably amongst Medical Profession; salary secondary consideration if prospects. 180/19, Office of this Paper.

**R**EPRESENTATIVE, ten years' experience Lancashire and Cheshire chemists hairdressers stores. Desires additional good line. Part expenses, commission basis. 177/1 Office of this Paper.

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## Late News

**N**ORTH LONDON PHARMACEUTICAL ASSOCIATION.—A business meeting will be held at North Library, Manor Gardens, Holloway, N.7, at 2.30 p.m. on January 25. Mr. W. S. Howells (a member of the Pharmaceutical Society's Council) will speak on the activities of the Council in war-time.

**S**UMMER TIME.—Sir John Anderson stated in the House of Commons on January 16 that in view of the various interests affected there were strong objections to re-introducing summer time so soon as the middle of February. An announcement regarding the final decision will be made at an early date.

**M**ANCHESTER PHARMACEUTICAL ASSOCIATION.—A joint meeting of the Association and local Branch of the Pharmaceutical Society will be held at the Victoria Hotel, Deansgate, on January 24, at 3 p.m., when "ten-minutes papers" will be contributed as follows: "The Refining of Antitoxins," by Mr. H. D. Mills; "The Influence of the State over Pharmacy," by Mr. T. B. Chadwick; "Recent Trends in the Study of Crude Drugs," by Mr. J. M. Rowson; and "The Society and the Progress of Pharmacy," by Mr. J. R. Walmsley.

**S**PESIAL RATIONS FOR INVALIDS.—The Medical Research Council have been requested by the Ministry of Food, the Ministry of Health, and the Department of Health for Scotland to appoint an expert committee to advise them from time to time whether it is necessary on medical grounds to modify or supplement rations in the case of invalids and other persons on special diets. The following have accepted the council's invitation to serve on the committee: Sir Edward Mellanby (chairman), Professor L. S. P. Davidson (University of Edinburgh), Lord Dawson of Penn, Professor F. R. Fraser (British Post-graduate

Medical School, London), Professor H. P. Himsworth (University College Hospital, London), Dr. R. D. Lawrence (King's College Hospital, London), Dr. R. A. McCance (University of Cambridge), Dr. J. C. Spence (Victoria Infirmary, Newcastle-on-Tyne).

The committee will hold its first meeting at once, when the question of diabetic diets will be particularly considered.

### Trade Report

**I**ODIDES.—Makers' scales of prices have been advanced on account of the increase in the price of crude iodine. POTASSIUM is advanced by threepence and the other sales by fourpence per lb. for wholesale quantities. The new scales are as follows:—POTASSIUM, B.P., not less than 1 cwt., 8s.; 2s. 6d.; 14 lb., 9s.; 7 lb., 10s. 2d.; 4 lb., 10s. 8d.; smaller quantities, 11s. 2d. per lb. SODIUM, B.P., not less than 2s. 6d., 8s. 10d.; 14 lb., 9s. 4d.; 7 lb., 10s. 9d.; 4 lb., 11s. 5d.; smaller quantities, 12s. 3d. per lb. IODINE, B.P., RESUB., not less than 1 ewt., 9s. 2d.; 2s. 6d.; 14 lb., 9s. 2d.; 7 lb., 11s. 7d.; 4 lb., 12s. 3d.; smaller quantities, 13s. per lb. IODOFORM, B.P. (CRYST., PRECIP., OR POWDER), not less than 2s. 6d., 11s. 4d.; 14 lb., 12s. 7d.; 7 lb., 13s. 9d.; 4 lb., 14s. 7d.; smaller quantities, 15s. 5d. per lb. Contracts for 1 ewt. and upwards (assorted if desired) for delivery as required during three months, with the following clause: Price applicable to any delivery is that in force on date of dispatch. One-ewt. cases charged extra; 2s. 6d. tins 2s. each and non-returnable. All bottles charged but credited in full if received back carriage-paid in good condition within three months. Carriage paid on any quantity. Assorted quantities charged at collective total prices on orders for 14 lb. and upwards. It is a condition of sale that buyers undertake not to re-sell any quantity at prices or terms below scale for such quantity current at time re-sale is made.

**M**ERCURY IODIDES.—Owing to increases in cost of raw materials, makers' prices have been advanced 1s. 6d. per lb. The new scales are as follows:—RED, less than 7 lb., 15s. 1d.; not less than 7 lb., 14s. 9d.; not less than 14 lb., 14s. 3d. per lb. GREEN, less than 7 lb., 16s. 4d.; not less than 7 lb., 16s.; not less than 14 lb., 15s. 6d. per lb. YELLOW, less than 7 lb., 17s. 7d.; not less than 7 lb., 17s. 3d.; not less than 14 lb., 16s. 9d. per lb. net, carriage paid.

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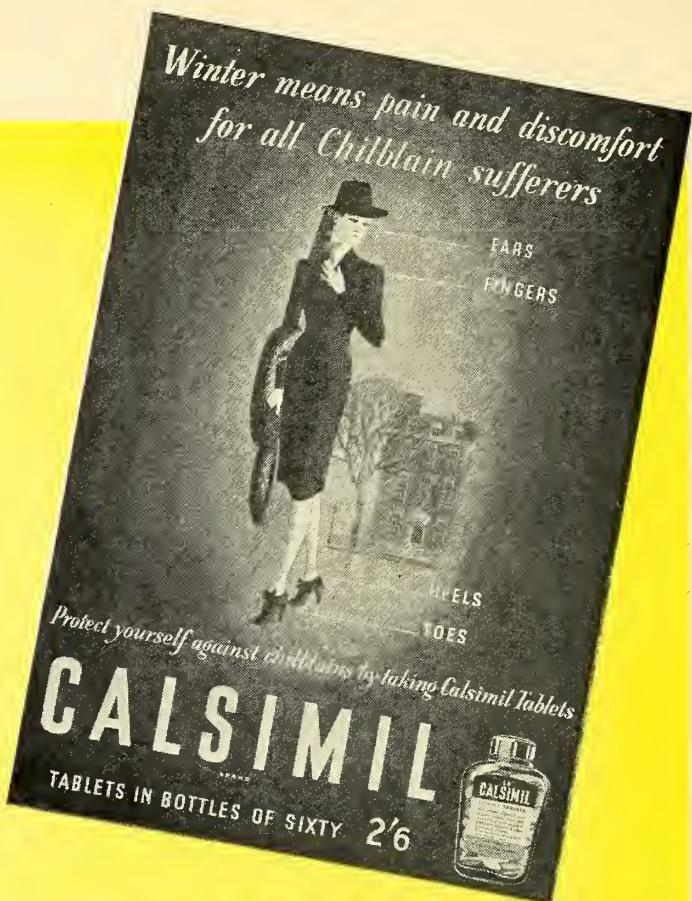
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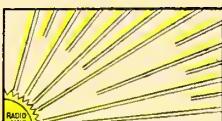
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